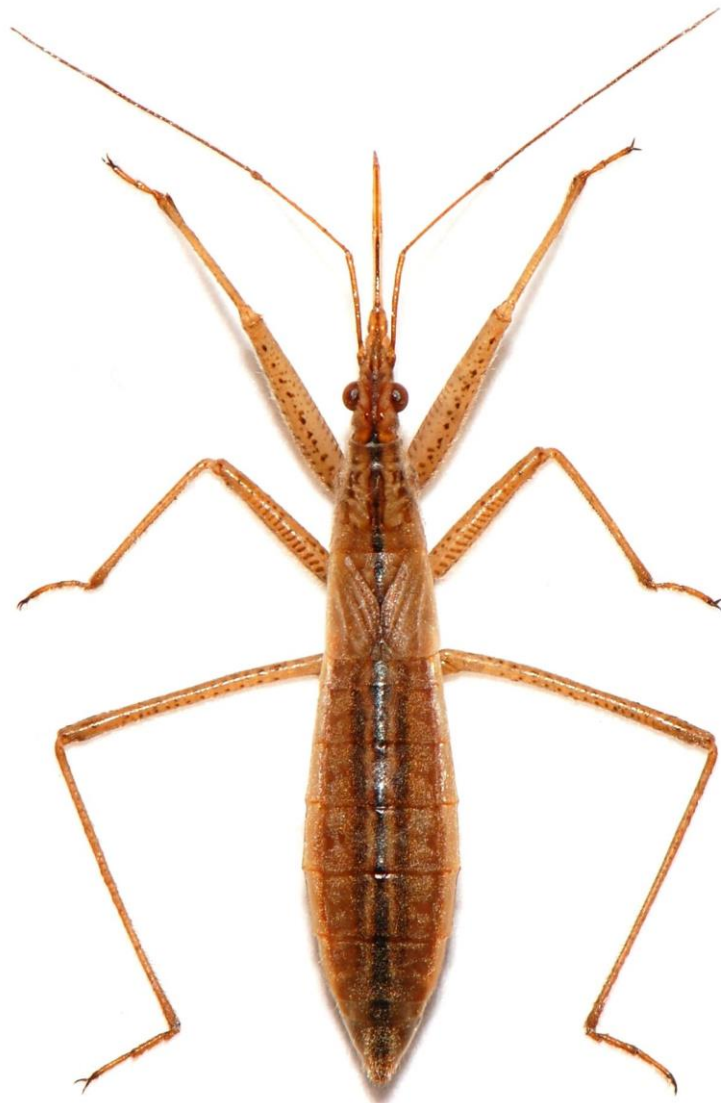


# THE HEMIPTERIST

A JOURNAL ON THE NATURAL HISTORY  
OF THE HEMIPTERA OF THE BRITISH ISLES



Volume 9 (2022)

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Volume 9 (2022)

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## A REVIEW OF THE PUBLISHED RECORDS FOR THE HEMIPTERA-HETEROPTERA OF THE BRITISH ISLES: (15) THE FAMILY PIESMATIDAE

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### Introduction

This is the fifteenth part of the review of the records of Hemiptera-Heteroptera in the British Isles published in the specialist entomological literature, which covers the Piesmatidae, up to the end of 2019. The scope, objectives and method of this work are set out in the Introduction (first part) of the review (Hem7:1-5). The vice-county records for the bugs have already been presented elsewhere in this journal, and are summarised in the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The remaining results of the review are given below, which are limited to records explicitly stated as being from the British Isles. These results comprise a list of all the heximonth records, that is records dated with sufficient precision to be assigned to a specific heximonth (Hem5:52-68); and a list of all the detailed records, that is, records that are not limited to date and location and refer to other aspects of the species' natural history. Duplicate records, the same record published in different articles, are excluded, with only the original record included. There is also a complete bibliography of all the references consulted in this part of the review. These are grouped by the names used in the literature, and thereby provide a synonymy for each species, for those sources listed in the Introduction. There is no reference list, instead references are cited in-line using the method of abbreviation described in the Introduction. Records which refer to ambiguous species names (Hem2:4-8, Hem3:15-17, Hem5:14-15 & Hem5:114-118) are listed separately, under a heading marked 'AMBIGUOUS'. The article is concluded with a tabulated summary of the results of the review, which excludes ambiguous records.

What is not stated in this review (the 'gaps') is arguably just as important as what is stated, which hopefully will provide an impetus to future research on the Hemiptera-Heteroptera in these islands. Consequently, I would be grateful to hear from any reader who has information which is new to that collected in this review, and who would be willing to publish it.

### Heximonth records

#### *Parapiesma quadratum* (Fieber) (Piesmatidae)

- 02D: 16 February 1964 [Kindrogan Field Centre, Blairgowrie, Perthshire. EMM100:97]
- 03C: 15 March 1951 [Grounds of Pest Infestation Laboratory, Slough. EMM89:248]
- 04B: 7 April 1984 [Starling Castle, Cumberland. ERJV104:8]
- 04C: 14 April 2012 [Snettisham RSPB Reserve, VC28. Hem4:38]
- 04E: 22 April 1957 [Dartford marshes, Kent. LondonHets]
- 04F: 27 April 2003 [Porthmessen, Cornwall. CornwallHets] 26 April 2004 [River Medway, Rochester. BJENH18:209]
- 05A: 2 May 1965 [Higham Marshes, Kent. Developed. PTSLENHS1965:56-57] 5 May 1953 [Hounslow, Middlesex. EMM89:248]
- 05C: 11 May 1953 [Grounds of Pest Infestation Laboratory, Slough. EMM89:248] 15 May 1996 [Perranuthnoe, Cornwall. CornwallHets] 13 May 2013 [Wicken Fen, Cambridgeshire. Hem4:144]
- 05D: 18 May 1926 [Benfleet, Essex. LondonHets] 18 May 1936 [South Benfleet, South Essex. Hem6:234]
- 05F: 27 May 1991 [Coulderton, Cumberland. ERJV104:8] 28 May 1991 [Near Eskmeals Viaduct, Ravenglass, Cumberland. ERJV104:8]
- 06B: 6 June 2004 [Kynance Cove to Caerthillian Valley, Cornwall. CornwallHets] 6 June 1900 [Plumstead and Abbey Wood marshes, Kent. LondonHets] 9 June 2004 [River Medway, Rochester. BJENH18:209]

- 06C: 13 June 2004 [Ferry Marshes, Kent. BJENH18:70-72]  
 06D: 18 June 2004 [Pedngwinian Head and between Poldhu Cove and Gunwalloe. CornwallHets]  
 17 June 2002 [Porthcothan, Cornwall. CornwallHets] 19 June 1958 [Ruislip NR, Middlesex.  
 Adult. LondonHets] 17 June 1987 [St Martin's, Cornwall. CornwallHets]  
 06E: 21 June 2001 [Poldhu Cove, Cornwall. CornwallHets]  
 06F: 27 June 2016 [Breydon Water, VC27. Hem4:41] 30 June 1963 [Faversham Creek, Kent.  
 PTSLENHS1963Part1:68-69]  
 07D: 16 July 1933 [South Benfleet, Essex. PTSLENHS1933-34:23-25]  
 07E: 24 July 1954 [Abbey Wood marshes, Kent. LondonHets]  
 07F: 27 July 1972 [Beaulf Firth, near Inverness. EMM109:223-225] 28 July 1956 [Cripplegate,  
 City of London, Middlesex. Males and females. LondonHets] 27 July 1953 [Hounslow Heath,  
 Middlesex. LondonHets] 28 July 1953 [Hounslow Heath, Middlesex. Males. EMM90:49-56] 30  
 July 1951 [West End Common, VC17. Hem6:234]  
 08B: 8 August 1954 [Harefield, Middlesex. Adult. LondonHets] 7 August 1999 [Lantic Bay,  
 Cornwall. CornwallHets] 9 August 2018 [Spurn peninsula, VC61. Hem6:215]  
 08C: 12 August 1999 [Kilminorth Wood, Cornwall. CornwallHets] 11 August 1999 [Lantic Bay,  
 Cornwall. CornwallHets] 15 August 1935 [South Benfleet, South Essex. Hem6:234]  
 08D: 16 August 1932 [Bembridge, Isle of Wight. Hem6:234] 17 August 1985 [Newborough  
 Warren, Anglesey. HSGN6:3] 18 August 1965 [Peninnis Head, St Mary's, Isles of Scilly. Males  
 and females. Ent99:107-110] 20 August 2002 [Porthcurnick, Cornwall. CornwallHets]  
 08E: 25 August 1984 [Blackwater, Essex. HSGN4:4] 25 August 1931 [Kilmore Quay, Wexford.  
 IrelandHets] 25 August 1934 [Pegwell Bay, East Kent. Hem6:234]  
 08F: 31 August 1955 [Abbey Wood marshes, Kent. LondonHets] 26 August 2015 [Devil's Dingle,  
 Buildwas, Shropshire. HN23:11]  
 09B: 9 September 1895 [Plumstead and Abbey Wood marshes, Kent. LondonHets]  
 09C: 15 September 2019 [Beacon Lagoons, near Spurn peninsula, VC61. Hem6:266] 13  
 September 1957 [Hounslow Heath, Middlesex. LondonHets]  
 09E: 24 September 1992 [Kennack Sands, Cornwall. CornwallHets] 22 September 1998 [Kynance  
 Cove, Cornwall. CornwallHets] 25 September 1992 [Porthleven, Cornwall. CornwallHets]  
 10A: 4 October 1954 [Esher Common, VC17. Hem6:234] 5 October 1952 [Hounslow Heath,  
 Middlesex. Ent86:34-40]  
 10C: 11 October 1951 [Esher Common, VC17. Hem6:234]

*Piesma maculatum* (Laporte) (Piesmatidae)

- 01B: 8 January 1948 [Fancott, Bedfordshire. EMM86:6-8]  
 02B: 8 February 1920 [Chipstead, Surrey. Female. LondonHets]  
 02F: 28 February 1956 [Fawkham, Kent. LondonHets]  
 03A: 4 March 1923 [Buckland, Surrey. Female. LondonHets] 3 March 1937 [Harpenden,  
 Hertfordshire. LondonHets]  
 04B: 6 April 2011 [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. Hem6:269]  
 04C: 13 April 1921 [Royston Heath, Hertfordshire. LondonHets]  
 04D: 19 April 1907 [Ashtead, Surrey. Female. LondonHets] 19 April 2018 [St Giles Church  
 graveyard, Oxford. Hem6:269]  
 04E: 22 April 1944 [Chedworth, Gloucestershire. GloucsHets]  
 05A: 4 May 2014 [Whitecross Green Wood, Watsonian Buckinghamshire. Hem6:269]  
 05B: 9 May 1953 [Amersham, Buckinghamshire. LondonHets] 10 May 1954 [Ardington,  
 Berkshire. EMM93:121-126] 7 May 1905 [Buckland Hill, Surrey. Female. LondonHets] 6 May  
 1960 [Darenth Wood, Kent. LondonHets] 7 May 1935 [Imperial College Biological Field  
 Station, Slough. JSBE1:165-166]  
 05C: 11 May 1912 [Abinger Hammer, Surrey. LondonHets] 11 May 1954 [Ardington, Berkshire.  
 EMM93:121-126] 12 May 1954 [Ardington, Berkshire. EMM93:121-126] 13 May 1956  
 [Bookham Common, Surrey. LondonHets] 13 May 1962 [Dungeness, Kent.  
 PTSLENHS1962:89-90] 15 May 1952 [Little Chalfont, Buckinghamshire. LondonHets]  
 05D: 17 May 1919 [Benfleet, Essex. LondonHets] 17 May 1924 [Hale End, London E4, Essex.  
 ERJV37:58-59] 16 May 1910 [Royston, Hertfordshire. LondonHets]

- 05E: 22 May 1938 [Isle of Wight. PTSLENHS1938-39:43-44] 21 May 2015 [VC32. Hem3:95]  
 05F: 28 May 1985 [Sherborne, Gloucestershire. GloucsHets]  
 06A: 4 June 2005 [Green Lane, Qwithian, Cornwall. CornwallHets] 4 June 1898 [Hither Green Lane, Lee, Kent. LondonHets] 2 June 1951 [Ivinghoe Beacon, Buckinghamshire. LondonHets] 3 June 1962 [Wood Walton Fen, Huntingdonshire. PTSLENHS1962:92]  
 06B: 6 June 1931 [Gravesend, Kent. Female. LondonHets] 6 June 1900 [Plumstead and Abbey Wood marshes, Kent. LondonHets]  
 06C: 14 June 1953 [Bookham Common, Surrey. Female. LondonHets]  
 06D: 19 June 1902 [Grove Park, Lee, Kent. LondonHets] 19 June 1960 [Shoreham, Kent. LondonHets]  
 06E: 22 June 1932 [North Lincolnshire. EMM68:213-214]  
 07B: 8 July 1932 [Ashby-de-la-Zouch, Leicestershire. EMM68:213-214]  
 07E: 25 July 1943 [Bushey, Hertfordshire. LondonHets] 21 July 2014 [Holme, VC28. Hem4:38] 25 July 1896 [Kidbrooke Lane, Kent. LondonHets] 25 July 1948 [Long Lane Pit, Tingrith, Bedfordshire. EMM86:6-8]  
 07F: 27 July 1953 [Hounslow Heath, Middlesex. LondonHets]  
 08A: 1 August 1947 [Cardington, near Bedford. PRES(A)24:128-130] 1 August 2010 [Thorney Island, Watsonian West Sussex. Hem6:269]  
 08B: 9 August 1984 [Darland's Lake NR, Totteridge, Hertfordshire. LondonHets] 6 August 2009 [Whitecross Green Wood, Watsonian Buckinghamshire. Hem6:269]  
 08C: 15 August 2008 [Whitecross Green Wood, Watsonian Buckinghamshire. Hem6:269]  
 08D: 17 August 1985 [Newborough Warren, Anglesey. HSGN6:3]  
 08E: 24 August 1948 [Boxmoor, Hertfordshire. EMM85:249-253]  
 08F: 31 August 2006 [West Pentire Farm, Crantock, Cornwall. Nymphs. CornwallHets] 31 August 1941 [Wormley Wood, Hertfordshire. LondonHets]  
 09B: 9 September 1951 [Bookham Common, Surrey. LondonHets] 10 September 1950 [Common Wood, Buckinghamshire. LondonHets]  
 09C: 14 September 1934 [Along the Colne Valley from West Hyde to Watford, Hertfordshire. LondonHets] 14 September 1952 [Amersham, Buckinghamshire. LondonHets] 12 September 1993 [Cassey Compton, Gloucestershire. GloucsHets] 12 September 1909 [Chipstead, Surrey. Female. LondonHets]  
 09E: 23 September 1951 [Amersham, Buckinghamshire. LondonHets]  
 10B: 9 October 1900 [Hampstead, Middlesex. Male. LondonHets]  
 11C: 11 November 1947 [Cardington, near Bedford. PRES(A)24:128-130]  
 11E: 22 November 1920 [Westerham, Kent. LondonHets]  
 12E: 23 December 1955 [Darenth Wood, Kent. LondonHets]

### Detailed records

#### *Parapiesma quadratum* (Fieber) (Piesmatidae)

- Indoors, walking on a table [Kindrogan Field Centre, Blairgowrie, Perthshire. 16 February 1964. EMM100:97]  
 Sweeping [Grounds of Pest Infestation Laboratory, Slough. 15 March 1951. EMM89:248]  
 Tapped from Marram grass [Starling Castle, Cumberland. 7 April 1984. ERJV104:8]  
 Sweeping saltmarsh fragments next to derelict wharfs [River Medway, Rochester. 26 April 2004. BJENH18:209]  
 Sweeping [Grounds of Pest Infestation Laboratory, Slough. 11 May 1953. EMM89:248]  
 On *Plantago lanceolata* [Coulderton, Cumberland. 27 May 1991. ERJV104:8]  
 Sweeping Sea Purslane on a salt marsh and in flood refuse at base of *Chenopodium* [Near Eskmeals Viaduct, Ravenglass, Cumberland. 28 May 1991. ERJV104:8]  
 Under sea beet [Kynance Cove to Caerthillian Valley, Cornwall. 6 June 2004. CornwallHets]  
 Sweeping along a river bank [Plumstead and Abbey Wood marshes, Kent. 6 June 1900. LondonHets]  
 Sweeping saltmarsh fragments next to derelict wharfs [River Medway, Rochester. 9 June 2004. BJENH18:209]

- On a saltmarsh [Ferry Marshes, Kent. 13 June 2004. BJENH18:70-72]  
 Sea beet [Porthcothan, Cornwall. 17 June 2002. CornwallHets]  
 Sweeping an area of *Rumex acetosella* and *Galium aparine* [Ruislip NR, Middlesex. 19 June 1958. Adult. LondonHets]  
 On *Beta maritima* and other plants [South Benfleet, Essex. 16 July 1933. PTSLENHS1933-34:23-25]  
 Beneath a mat of mixed Chenopodiaceae growing on a seashore strand-line [Beaulf Firth, near Inverness. 27 July 1972. EMM109:223-225]  
 Sweeping *Chenopodium album* growing on a bombed basement and site [Cripplegate, City of London, Middlesex. 28 July 1956. Males and females. LondonHets]  
 Heard to stridulate in culture [Houslow Heath, Middlesex. 28 July 1953. Males. EMM90:49-56]  
 Sweeping marshy habitat [Harefield, Middlesex. 8 August 1954. Adult. LondonHets]  
 Sweeping/searching at roots of plants [Spurn peninsula, VC61. 9 August 2018. Hem6:215]  
 Under *Spergularia rupicola* on rocky headland [Peninnis Head, St Mary's, Isles of Scilly. 18 August 1965. Males and females. Ent99:107-110]  
 From Chenopods on saltings [Blackwater, Essex. 25 August 1984. HSGN4:4]  
 Sweeping marginal vegetation around a pool on an ash disposal site [Devil's Dingle, Buildwas, Shropshire. 26 August 2015. HN23:11]  
 Searching under scattered vegetation growing in sand along the perimeter of pools close to the sea [Beacon Lagoons, near Spurn peninsula, VC61. 15 September 2019. Hem6:266]  
 Beneath *Artemisia* on a waste tip [Hounslow Heath, Middlesex. 5 October 1952. Ent86:34-40]  
 In salt marshes [Aldeburgh and Wherstead, Suffolk. SuffolkHets]  
 Under stones on the sea shore [Ballyvaughan, Clare. July 1895. IrelandHets]  
 Associated with *Atriplex* inland on rubbish tips, around gravel pits and on waste land [Britain. Ent99:107-110]  
 Associated with *Halimione* and *Atriplex* at the coast [Britain. Ent99:107-110]  
 Feeds on *Chenopodium album*, *Beta maritima*, *Atriplex littoralis* and *Salsola kali* [Britain. Ent89:13-15]  
 On mudflats below a seawall [Brownsea Island, Poole Harbour, Dorset. 2006-2007. EG60:37-71]  
 Under *Atriplex* growing on the edge of a lake [Bryher, Isles of Scilly. Mid-June 1966. EMM102:285-286]  
 Sweeping *Chenopodium* on the coast [Dublin. Early August. Adults just emerged from nymphs. IrelandHets]  
 Amongst salt-marsh plants on the coast [Dublin. IrelandHets]  
 Under stones on the coast [Dublin. IrelandHets]  
 Under *Chenopodium* on sandhills [Felixstowe, Suffolk. August 1901. SuffolkHets]  
 Beneath low-growing plants on the seashore just where the vegetation begins above the high water mark [Ferring-on-sea, Sussex. August 1932. EMM69:21]  
 On sandhills [Freshwater Bay, Pembrokeshire. EMM3:92]  
 At roots of *Chenopodium* [Kenmare, South Kerry. IrelandHets]  
 Under *Chenopodium* [Minehead, Somerset. August 1928. EMM65:40-42]  
 Salt marsh [Newtown Nature Reserve, Isle of Wight. June 1973. EMM110:122]  
 From naturally-vegetated derelict land [North-west England. EG43:221-226]  
 On *Chenopodium* [Pembrokeshire coast. Ent60:283-284]  
 At roots of *Rumex acetosella* [Plumstead, Kent. EMM95:96]  
 On cindery ground amongst *Atriplex patula* [Plumstead, Kent. EMM95:96]  
 Under stones on a river bank [River Tay. Butler1923]  
 Amongst grass, etc. on the coast [Southend. May and September 1869/70. EMM7:184-185]  
 Under *Spergularia rupicola* near a quay [St Martin's, Isles of Scilly. Mid-June 1966. EMM102:285-286]  
 On shore [Sutton, Dublin. August 1928. IrelandHets]  
 Under maritime plants [Yarmouth, Isle of Wight. ERJV40-42:Supplement, 1-87]

*Piesma maculatum* (Laporte) (Piesmatidae)

- In bird's nest [Fancott, Bedfordshire. 8 January 1948. EMM86:6-8]

- Suction sampling moss [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. 6 April 2011. Hem6:269]
- Beating yew [St Giles Church graveyard, Oxford. 19 April 2018. Hem6:269]
- Sieving heaps of dead plant material resulting from mowing in a wood [Whitecross Green Wood, Watsonian Buckinghamshire. 4 May 2014. Hem6:269]
- In a suction trap in a field of young winter wheat [Ardington, Berkshire. 10 May 1954. EMM93:121-126]
- In grass on lawn [Imperial College Biological Field Station, Slough. 7 May 1935. JSBE1:165-166]
- In a suction trap in a field of young winter wheat [Ardington, Berkshire. 11 May 1954. EMM93:121-126]
- In a suction trap in a field of young winter wheat [Ardington, Berkshire. 12 May 1954. EMM93:121-126]
- On a blanket drying in a garden [Hale End, London E4, Essex. 17 May 1924. ERJV37:58-59]
- Sweeping [Isle of Wight. 22 May 1938. PTSLENHS1938-39:43-44]
- Sweeping [Green Lane, Qwithian, Cornwall. 4 June 2005. CornwallHets]
- Sweeping [Hither Green Lane, Lee, Kent. 4 June 1898. LondonHets]
- Sweeping on swampy ground [Plumstead and Abbey Wood marshes, Kent. 6 June 1900. LondonHets]
- Sweeping in a wood [Grove Park, Lee, Kent. 19 June 1902. LondonHets]
- On sugar beet and *Chenopodium album* [North Lincolnshire. 22 June 1932. EMM68:213-214]
- Aerial netting at 250 ft over a grass sports field [Cardington, near Bedford. 1 August 1947. PRESL(A)24:128-130]
- Sweeping [Thorney Island, Watsonian West Sussex. 1 August 2010. Hem6:269]
- Sweeping woodland clearings and rides [Whitecross Green Wood, Watsonian Buckinghamshire. 6 August 2009. Hem6:269]
- Sweeping woodland clearings and rides [Whitecross Green Wood, Watsonian Buckinghamshire. 15 August 2008. Hem6:269]
- Under yew leaves on the ground in an orchard [Boxmoor, Hertfordshire. 24 August 1948. EMM85:249-253]
- With *Atriplex* in arable fields [West Pentire Farm, Crantock, Cornwall. 31 August 2006. Nymphs. CornwallHets]
- Under hedges on dry banks in moss [Along the Colne Valley from West Hyde to Watford, Hertfordshire. 14 September 1934. LondonHets]
- At exposed heartwood on trunk of a field horse chestnut tree [Cassey Compton, Gloucestershire. 12 September 1993. GloucsHets]
- In spruce cone [Amersham, Buckinghamshire. 23 September 1951. LondonHets]
- Aerial netting at 50 ft over a grass sports field [Cardington, near Bedford. 11 November 1947. PRESL(A)24:128-130]
- Beneath aspen bark [About Ipswich, Suffolk. SuffolkHets]
- In grass [Aspall Woods, Suffolk. Winter. SuffolkHets]
- On birch [Assington Thicks and Bentley Woods, Suffolk. SuffolkHets]
- On a variety of chenopodiaceous weeds [Britain. Ent99:107-110]
- In a suction trap [Cardington, Bedfordshire. August 1955. Males and females. TRESL112:173-220]
- At roots of grass [Criccieth, Caernarvon. August 1958. EMM94:287]
- On demolition sites [Derby. 1982. EMM120:253-258]
- In drier arable fields [Devon. Ent89:13-15]
- Sugar beet and mangolds [Devon/Cornwall. Ent87:25-30]
- Moss [Dover. EMM26:81-82]
- On sandhills [Freshwater Bay, Pembrokeshire. EMM3:92]
- In litter [Grounds of Pest Infestation Laboratory, Slough. LondonHets]
- On thistle [Lee Manor Farm, Kent. June 1891. LondonHets]
- Sweeping [New Forest. ERJV40-42:Supplement, 1-87]
- In marsh hay [Oulton Broad, Suffolk. SuffolkHets]
- Sweeping Wood Sage [Pembrokeshire coast. Ent60:283-284]

- In moss litter [Porthleven, Cornwall. 1968. CornwallHets]  
 In sugar-beet field [Rolleston, Nottinghamshire. June 1928. EMM65:111]  
 In a light trap [Rothamsted Experimental Station, Harpenden. 1936. Female. PRESL(A)13:19-24]  
 In a suction trap [Rothamsted Experimental Station, Harpenden. 1953. Males and females.  
 TRESL112:173-220]  
 In a suction trap [Rothamsted Farm, Harpenden. 1954. Male. TRESL112:173-220]

### Bibliography

#### *Parapiesma quadratum* (Fieber) (Piesmatidae)

- as *P. quadratus* EMM81:253-273  
 as *Parapiesma quadratum* BJENH25:205-215, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:22, Hem2:44, Hem3:24, Hem3:25, Hem3:4, Hem3:42, Hem3:76, Hem4:104, Hem4:128, Hem4:133, Hem4:144, Hem4:29, Hem4:38, Hem4:41, Hem4:5, Hem4:71, Hem4:87, Hem5:104, Hem5:121, Hem5:135, Hem5:150, Hem5:161, Hem5:18, Hem5:194, Hem5:206, Hem5:28, Hem5:4, Hem5:42, Hem5:57, Hem5:94, Hem6:215, Hem6:216, Hem6:234, Hem6:266, Hem6:65, HN11:14, HN17/18:26, HN23:11  
 as *Parapiesma quadratum quadratum* HSGN13:12  
 as *Pies. quadratum* EMM91:7-27  
 as *Piesma quadrata* Butler1923, EMM102:285-286, EMM14:186-187, EMM25:237-238, EMM65:17, EMM65:40-42, EMM69:21, EMM69:234-245, EMM83:95, EMM90:49-56, Ent27:222, Ent60:283-284, Ent86:34-40, Ent89:223-231, ERJV15:134, ERJV21:272-276, ERJV40-42:Supplement, 1-87, IrelandHets, PTSLENHS1933-34:23-25, PTSLENHS1963Part1:68-69, Saunders1892, SuffolkHets, Synopsis1875, TSBE1:51-84, TSBE11:245-280  
 as *Piesma quadratum* BJENH18:209, BJENH18:70-72, BJENH25:205-215, CornwallHets, EG43:221-226, EG60:37-71, EMM100:97, EMM109:223-225, EMM110:122, EMM89:248, EMM91:282-283, EMM95:96, Ent99:107-110, ERJV104:8, HSGN11:10, HSGN12:13, HSGN14:5, HSGN4:4, HSGN6:3, LondonHets, PTSLENHS1962:123-183, PTSLENHS1965:56-57, S&L1959, TRESL112:173-220  
 as *Piesma quadratum spergulariae* BJENH2:53-54, CornwallHets, HN6:13, HSGN1:4, HSGN14:5, HSGN8:9  
 as *Piesma quadratus* EMM82:66, EMM89:17, Ent89:13-15  
 as *Piesma spergulariae* BJENH25:205-215, EMM102:285-286, Ent99:107-110  
 as *Zosmerus quadratus* D&S1865, EMM3:92, EMM7:184-185

#### *Piesma maculatum* (Laporte) (Piesmatidae)

- as *P. maculatus* EMM81:253-273  
 as *Pies. maculatum* EMM91:7-27  
 as *Piesma capitata* EMM48:108-111, EMM65:111, EMM69:234-245, Ent27:222, Ent59:84-85, JSBE1:165-166, Saunders1892, SuffolkHets, Synopsis1875  
 as *Piesma Laportei* EMM26:81-82, Synopsis1875  
 as *Piesma maculata* Butler1923, EMM60:39, EMM63:41-42, EMM65:111, EMM65:40-42, EMM68:213-214, EMM69:234-245, EMM85:249-253, EMM86:6-8, Ent59:84-85, Ent60:283-284, ERJV37:58-59, ERJV40-42:Supplement, 1-87, IrelandHets, PRESL(A)13:19-24, PRESL(A)24:128-130, PTSLENHS1938-39:43-44, PTSLENHS1962:89-90, TRESL112:173-220, TSBE1:51-84, TSBE11:245-280  
 as *Piesma maculatum* BJENH28:5-15, CornwallHets, EMM120:253-258, EMM93:121-126, EMM94:287, Ent99:107-110, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:32, Hem3:24, Hem3:25, Hem3:4, Hem3:42, Hem3:76, Hem3:95, Hem4:104, Hem4:133, Hem4:148, Hem4:29, Hem4:38, Hem4:41, Hem4:5, Hem4:71, Hem4:87, Hem5:104, Hem5:121, Hem5:161, Hem5:194, Hem5:28, Hem5:4, Hem5:42, Hem5:57, Hem5:71, Hem5:94, Hem6:234, Hem6:269, Hem6:65, HN17/18:26, HN6:2, HSGN12:13, HSGN13:12, HSGN6:3, LondonHets, PTSLENHS1962:123-183, PTSLENHS1962:92, S&L1959, TRESL112:173-220

as *Piesma maculatus* Ent87:25-30, Ent89:13-15  
 as *Zosmerus capitatus* D&S1865, EMM3:92, EMM6:183  
 as *Zosmerus Laportei* D&S1865

### Tabulated summaries

On the following pages are summaries of the results of this review for each of the species in scope. The common name is that used in the literature consulted; or has been created from aspects of the species natural history. The first report is the first mention of the species in the literature consulted, starting at D&S1865. The ambiguities, if they occur, refer to the ambiguous species names of Hem2:4-8, Hem3:15-17, Hem5:14-15 and Hem5:114-118. The geographical distribution is based upon records published elsewhere in this journal; and is shown as a map from the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The presence of a vice-county record is shown with a black fill, and the absence with a white fill. The seasonal distribution is based on the heximonth records listed above and is shown as a calendar. The presence of an adult record is shown with a black fill, and the absence with a white fill, with a figure representing the number of distinct records in the above list. The existence of nymph and egg records is shown by the letters 'N' and 'E', respectively, without a figure. Heximonth records are assumed to be adult unless explicitly stated otherwise. The other details is a narrative constructed from the detailed records listed above. Aspects of the narrative which include records for nymphs or eggs are marked '(n)' or '(e)', respectively. Those that include winter records (which I define as 1st January to 31st March) are marked '(w)'. Habitus photographs of the species are included, where available.

***Parapiesma quadratum* (Fieber) (Piesmatidae)**

*Common name.* The Coastal Beetbug.

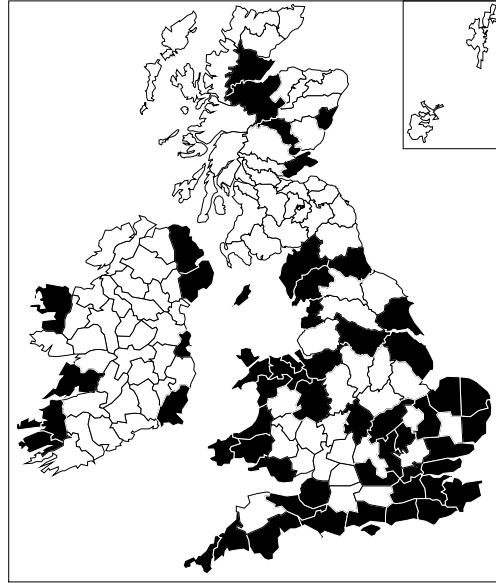
*First report.* D&S1865 as *Zosmerus quadratus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sea shore, river bank, rocky headland, sand hills, edge of a lake, salt marsh, around a pool on an ash disposal site, bombed site, cindery ground, mudflats below a seawall, naturally-vegetated derelict land, waste tip, gravel pits, and waste land; specifically from *Chenopodium*, *Rumex acetosella*, *Plantago lanceolata*, *Spergularia rupicola*, *Beta maritima*, *Atriplex*, Marram grass, Sea Purslane, *Artemisia*, *Halimione*, grass, flood refuse, and under stones. It has been taken sweeping (w), beating, at roots of plants, and under plants. Seen walking on a table indoors (w). Reported to feed on *Chenopodium album*, *Beta maritima*, *Atriplex littoralis* and *Salsola kali*.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February				1		
March			1			
April		1	1		1	2
May	2		3	2		2
June		3	1	4	1	2
July				1	1	5
August		3	3	4	3	2
September		1	2		3	
October	2		1			
November						
December						



***Piesma maculatum* (Laporte) (Piesmatidae)**

*Common name.* The Wandering Beetbug.

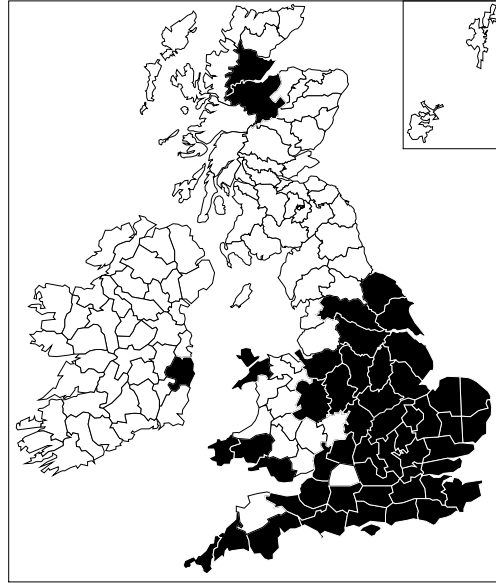
*First report.* D&S1865 as *Zosmerus capitatus* and *Zosmerus Laportei*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from swampy ground, woodland clearings and rides, arable fields (n), demolition sites, sandhills, and lawn; specifically from sugar beet, mangolds, Wood Sage, moss, *Atriplex* (n), birch, *Chenopodium album*, thistle, marsh hay, litter, grass, spruce cone, and bird's nest (w). It has been taken sweeping, in a suction trap, in a light trap, suction sampling, aerial netting at 50 ft and 250 ft over a grass sports field, beating yew, beneath aspen bark, at the roots of plants, under hedges on dry banks in moss, under yew leaves on the ground in an orchard, on a blanket drying in a garden, sieving heaps of dead plant material resulting from mowing in a wood, and at exposed heartwood on trunk of a field horse chestnut tree.



	1-5	6-10	11-15	16-20	21-25	26-
January		1				
February		1				1
March	2					
April		1	1	2	1	
May	1	5	6	3	2	1
June	4	2	1	2	1	
July		1			4	1
August	2	2	1	1	1	1 N
September		2	4		1	
October		1				
November			1		1	
December					1	



## A REVIEW OF THE PUBLISHED RECORDS FOR THE HEMIPTERA-HETEROPTERA OF THE BRITISH ISLES: (16) THE FAMILY TINGIDAE

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### Introduction

This is the sixteenth part of the review of the records of Hemiptera-Heteroptera in the British Isles published in the specialist entomological literature, which covers the Tingidae, up to the end of 2019. The scope, objectives and method of this work are set out in the Introduction (first part) of the review (Hem7:1-5). The vice-county records for the bugs have already been presented elsewhere in this journal, and are summarised in the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The remaining results of the review are given below, which are limited to records explicitly stated as being from the British Isles. These results comprise a list of all the heximonth records, that is records dated with sufficient precision to be assigned to a specific heximonth (Hem5:52-68); and a list of all the detailed records, that is, records that are not limited to date and location and refer to other aspects of the species' natural history. Duplicate records, the same record published in different articles, are excluded, with only the original record included. There is also a complete bibliography of all the references consulted in this part of the review. These are grouped by the names used in the literature, and thereby provide a synonymy for each species, for those sources listed in the Introduction. There is no reference list, instead references are cited in-line using the method of abbreviation described in the Introduction. Records which refer to ambiguous species names (Hem2:4-8, Hem3:15-17, Hem5:14-15 & Hem5:114-118) are listed separately, under a heading marked 'AMBIGUOUS'. The article is concluded with a tabulated summary of the results of the review, which excludes ambiguous records.

What is not stated in this review (the 'gaps') is arguably just as important as what is stated, which hopefully will provide an impetus to future research on the Hemiptera-Heteroptera in these islands. Consequently, I would be grateful to hear from any reader who has information which is new to that collected in this review, and who would be willing to publish it.

### Heximonth records

#### *Acalypta brunnea* (Germar) (Tingidae)

07F: 31 July 1994 [Horner Wood, Exmoor, North Somerset. BJENH10:177-178]

09C: 15 September 1984 [New Forest, Hampshire. PTBENHS18:20]

#### *Acalypta carinata* (Panzer) (Tingidae)

05B: 8 May 1923 [Brasted, Kent. LondonHets]

05C: 12 May 1907 [Buckland Hill, Surrey. Male. LondonHets]

05D: 20 May 1922 [Brasted, Kent. LondonHets] 18 May 1874 [G. Woott. (Granville Wootton).

EMM69:234-245] 18 May 1952 [Oaken Grove, Buckinghamshire (near Henley-on-Thames).

EMM89:2]

05E: 21 May 1922 [Otford, Kent. Male. LondonHets]

05F: 31 May 2012 [Homefield Wood, Buckinghamshire. Adults and nymphs. Hem1:34]

06B: 6 June 1925 [Otford, Kent. Male and Female. LondonHets]

06C: 13 June 1925 [Otford, Kent. Female. LondonHets] 15 June 2015 [The Chase, Broad Layings, VC12. Hem3:54]

06D: 18 June 2000 [Cobbs Wood, Wimpole, VC29. Hem4:144] 20 June 2012 [Savernake Forest, North Wiltshire. BJENH27:220] 19 June 2002 [Sovell Down, Dorset. HN2:7]

06E: 25 June 2015 [Great Pen Wood, VC12. Hem3:54]

06F: 29 June 1922 [Brasted, Kent. LondonHets] 28 June 1925 [Otford, Kent. Female. LondonHets]

- 07B: 9 July 2019 [Cowhouse Bank, North York Moors. Adults. Hem6:254]  
 07D: 19 July 1925 [Otford, Kent. LondonHets]  
 08A: 4 August 1965 [Wychwood Forest NNR, Oxfordshire. EMM104:22]  
 09C: 12 September 1934 [Harefield, Middlesex. Ent71:148-153]  
 10B: 9 October 1920 [Otford, Kent. LondonHets]

*Acalypta nigrina* (Fallén) (Tingidae)

- 07B: 9 July 2019 [Lund Ridge, North York Moors. Adult. Hem6:254]  
 07C: 11 July 1903 [Shapwick, Somerset. Macropters. EMM70:68]  
 07E: 24 July 1992 [Tomfat Wood, VC96. BJENH7:174-175]  
 09C: 13 September 2019 [Botany Bay, Bilsdale East Moor, North York Moors. Nymphs. Hem6:265] 14 September 2019 [Hartoft Moor, North York Moors. Nymphs reared in culture. Hem6:265] 13 September 2019 [Lund Ridge, North York Moors. Nymphs reared in culture. Hem6:265]

*Acalypta parvula* (Fallén) (Tingidae)

- 01B: 7 January 2003 [Great Hill, Dorset. HN2:7]  
 01C: 14 January 1884 [Headley Lane. EMM21:24]  
 02E: 23 February 1932 [Corris Forest, Merioneth. EMM70:96-101] 23 February 1921 [Westerham, Kent. LondonHets]  
 03B: 8 March 1953 [Hyde Heath, Buckinghamshire. LondonHets] 6 March 1977 [South Weald, Essex. LondonHets]  
 03D: 19 March 1921 [Westerham, Kent. LondonHets]  
 03E: 23 March 1903 [Chiddingfold, Surrey. LondonHets] 24 March 2012 [Enstone Quarry, Oxfordshire. EMM149:136-137] 24 March 2012 [Enstone Quarry, Oxfordshire. EMM149:136-137] 24 March 1907 [Walton Heath, Surrey. Male and female. LondonHets]  
 04A: 2 April 1908 [Chiddingfold, Surrey. LondonHets] 4 April 1954 [Little Chalfont, Buckinghamshire. LondonHets]  
 04B: 10 April 1892 [Shirley, Surrey. LondonHets]  
 04C: 11 April 1914 [Letchworth, Hertfordshire. LondonHets]  
 05D: 17 May 1944 [Houghton Regis, Bedfordshire. EMM81:183-185]  
 05E: 22 May 2002 [Muckleford, Dorset. HN2:7]  
 05F: 26 May 1917 [Royston, Hertfordshire. LondonHets]  
 06A: 4 June 1953 [Iver, Buckinghamshire. LondonHets]  
 06B: 6 June 2014 [Helmdon, VC32. Nymphs. Hem2:27]  
 06D: 19 June 1987 [Whitesand Bay, Cornwall. CornwallHets]  
 07B: 9 July 2019 [Cowhouse Bank, North York Moors. Adults. Hem6:254] 9 July 2019 [Lund Ridge, North York Moors. Nymphs reared in culture. Hem6:254]  
 07C: 14 July 2016 [Swyncombe Downs, Oxfordshire Chilterns. Nymphs. BJENH30:107-108]  
 07D: 16 July 2014 [Helmdon, VC32. Adults. Hem2:27] 17 July 2015 [SU461606, VC12. Hem3:54]  
 07E: 24 July 2002 [Stonehill Down, Dorset. HN2:7]  
 07F: 28 July 1957 [Esher Common, Surrey. LondonHets] 31 July 1929 [Farley Heath, near Albury, Surrey. Female. LondonHets]  
 08A: 1 August 2002 [Bincombe Hill, Dorset. HN2:7]  
 08B: 8 August 2019 [Above Crowcombe, Quantock Hills, VC5. Adults. Hem6:263] 8 August 2019 [Above Crowcombe, Quantock Hills, VC5. Adults. Hem6:263] 8 August 2019 [Above Crowcombe, Quantock Hills, VC5. Adults and nymphs. Hem6:263] 7 August 1997 [Washingborough Hall Hotel, Washingborough, VC53. Hem3:85]  
 08C: 13 August 2002 [Hog Cliff, Dorset. HN2:7]  
 08D: 17 August 1952 [Aldenham, Hertfordshire. EMM89:132-134] 19 August 1924 [Lelant Towans, Cornwall. TSBE1:51-84] 16 August 1925 [Otford, Kent. Female. LondonHets] 19 August 2012 [Witley Common, Surrey. Hem6:244]  
 08E: 25 August 1984 [Blackwater, North Essex. HSGN4:4] 24 August 1952 [Oxshott Heath, Surrey. LondonHets] 23 August 2005 [South Penquite Farm, Cornwall. CornwallHets]

- 08F: 27 August 1905 [Darenth Wood, Kent. LondonHets] 27 August 1900 [Lakenheath Warren, Suffolk. EMM36:288-289] 28 August 1904 [Oxshott Heath, Surrey. LondonHets] 29 August 2006 [Pencarrow Head, Lanteglos, Cornwall. CornwallHets] 27 August 2010 [Witley Common, Surrey. Hem6:244] 31 August 2010 [Witley Common, Surrey. Hem6:244]
- 09A: 3 September 1970 [Caerthillian, Cornwall. CornwallHets] 5 September 1965 [Dungeness, Kent. PTSLENHS1965:91] 2 September 2002 [Fishers Bottom, Dorset. HN2:7] 2 September 1970 [Kynance Cove, Cornwall. CornwallHets] 1 September [Moor House Nature Reserve, Westmorland. TSBE19:173-235] 4 September 1964 [Swanscombe, Kent. LondonHets] 5 September 1952 [Wigpool Common, Gloucestershire. GloucsHets]
- 09B: 7 September 1964 [Bromley, Kent. LondonHets] 6 September 1952 [Coombe Hill, Buckinghamshire. LondonHets] 7 September 1976 [Darenth Wood, Kent. LondonHets] 9 September 2013 [West Acre Common, VC28. Hem4:38]
- 09C: 13 September 2019 [Botany Bay, Bilsdale East Moor, North York Moors. Adults. Hem6:265] 12 September 1909 [Chipstead, Surrey. Male and Female. LondonHets] 11 September 1985 [Duck Pool, Cornwall. CornwallHets] 12 September 2002 [Fishers Bottom, Dorset. HN2:7] 11 September 1934 [Harefield, Middlesex. Ent71:148-153] 14 September 2019 [Hartoft Moor, North York Moors. Adults. Hem6:265] 15 September 1963 [High Halstow, Kent. PTSLENHS1963Part1:73-74] 13 September 2019 [Lund Ridge, North York Moors. Adults. Hem6:265] 11 September 1921 [Otford, Kent. LondonHets] 11 September 1921 [Richmond Park, Surrey. LondonHets] 11 September 1985 [Tidna Valley, Cornwall. CornwallHets]
- 09D: 18 September 1908 [Dartford, Kent. Female. LondonHets] 19 September 1998 [Predannack North Cliff, Cornwall. CornwallHets]
- 09E: 22 September 1909 [Chipstead, Surrey. Female. LondonHets] 24 September 1910 [Chipstead, Surrey. Female. LondonHets] 22 September 1951 [Coombe Hill, Buckinghamshire. LondonHets] 25 September 2002 [Haydon Down, Dorset. HN2:7] 22 September 1998 [Kynance Cove, Cornwall. CornwallHets] 23 September 1993 [Porthallow, West Cornwall. BJENH13:106-107] 23 September 1992 [Porthoustock, Cornwall. CornwallHets] 23 September 1998 [Predannack South Cliff, Cornwall. CornwallHets]
- 09F: 27 September 2013 [Aston Rowant NNR, Oxfordshire Chilterns. Adults. BJENH30:29-30] 29 September 1963 [Farningham Wood, Kent. LondonHets] 29 September 1995 [Treveal Cliff, Cornwall. CornwallHets]
- 10A: 1 October 2002 [Giant Hill, Dorset. HN2:7] 2 October 1921 [Otford, Kent. LondonHets] 1 October 1934 [Uxbridge, Middlesex. Ent71:148-153]
- 10B: 6 October 2013 [Swyncombe Downs, Oxfordshire Chilterns. Adults. BJENH30:29-30]
- 10C: 12 October 1984 [River Thames, Belvedere, Kent. ERJV101:47-49] 12 October 1988 [Wem Moss, VC40. Hem5:155]
- 10D: 16 October 1959 [Erith Marshes, Kent. LondonHets] 18 October 1957 [Longdown Hill, Buckinghamshire. LondonHets]
- 10F: 26 October 1997 [Cudden Point, Cornwall. CornwallHets] 27 October 1997 [Kynance Cove, Cornwall. CornwallHets]
- 11C: 11 November 2002 [North Hill, Dorset. HN2:7]
- 11E: 25 November 2002 [Site 1, Bayards Hill, Dorset. HN2:7] 25 November 2002 [Site 2, Bayards Hill, Dorset. HN2:7]
- 12D: 17 December 1922 [Otford, Kent. LondonHets] 16 December 1934 [Westerham, Kent. LondonHets]

*Acalypta platycheila* (Fieber) (Tingidae)

- 05C: 15 May 2014 [Isles Quarry, VC16. HN22:6] 13 May 1931 [Mildenhall, Suffolk. EMM71:159-161]
- 05E: 23 May 1954 [Wimbledon Common, Surrey. LondonHets]
- 05F: 29 May 1912 [Brandon, Suffolk. Macropter and brachypter. EMM53:251-252]
- 06D: 20 June 1930 [West Parley, Dorset. EMM71:159-161]
- 06E: 22 June 2007 [Sutton Broad, VC27. Hem4:41]
- 07B: 10 July 1932 [Near Pulborough, Sussex. Macropter. EMM70:68]

*Agramma laetum* (Fallén) (Tingidae)

- 01B: 7 January 2003 [Great Hill, Dorset. HN2:7]  
 03E: 25 March 1988 [Littleworth Common, near Stroud, West Gloucestershire. BJENH19:34-37]  
 24 March 1907 [Walton Heath, Surrey. Male. LondonHets]  
 04D: 17 April 2003 [Portesham Quarry, Dorset. HN2:7]  
 05D: 19 May 2002 [Muckleford, Dorset. HN2:7] 18 May 2010 [Sand Pit area, Shotover Hill, Oxfordshire. EMM149:271-272] 19 May 2013 [Sand Pit area, Shotover Hill, Oxfordshire. EMM149:271-272]  
 05E: 22 May 2002 [Muckleford, Dorset. HN2:7]  
 05F: 31 May 1919 [Boxhill, Surrey. LondonHets] 26 May 1917 [Royston, Hertfordshire. LondonHets]  
 06A: 3 June 1985 [Minchinhampton Common, near Stroud, West Gloucestershire. BJENH19:34-37]  
 06B: 9 June 1917 [Boxhill, Surrey. LondonHets]  
 06C: 15 June 2002 [Haydon Hill, Dorset. HN2:7]  
 06D: 17 June 1934 [Broadwater Forest. PTSLENHS1934-35:21-22] 19 June 1993 [Mount Caburn NNR, near Glynde, East Sussex. BJENH8:88-90] 19 June 1991 [Plumpton Marsh, Ulverston, Westmorland. BJENH5:77] 19 June 2002 [Sovell Down, Dorset. HN2:7] 18 June 2003 [Swifts Hill, near Stroud, Gloucestershire. BJENH19:34-37]  
 07A: 4 July 2002 [Maiden Castle, Dorset. HN2:7]  
 07E: 24 July 2002 [Stonehill Down, Dorset. HN2:7]  
 07F: 28 July 1998 [Haresfield Beacon, East Gloucestershire. BJENH19:34-37]  
 08A: 5 August 2003 [Stenders Quarry, Forest of Dean, West Gloucestershire. BJENH19:34-37]  
 08B: 10 August 1997 [Selsley Common, near Stroud, West Gloucestershire. BJENH19:34-37]  
 08C: 13 August 2002 [Hog Cliff, Dorset. HN2:7]  
 08F: 26 August 1981 [Nagden salt marshes, Faversham, Kent. PTBENHS17:18-19]  
 09A: 3 September 2010 [Coombe Hill, Wendover, VC24. Hem2:25] 2 September 2002 [Fishers Bottom, Dorset. HN2:7]  
 09C: 12 September 2002 [Fishers Bottom, Dorset. HN2:7] 12-14 September 1955 [Poole Harbour, Dorset. EMM91:282-283] 14 September 1963 [Poor's Field, Ruislip Common, Middlesex. LondonHets]  
 09E: 25 September 2002 [Haydon Down, Dorset. HN2:7]  
 10A: 1 October 2002 [Giant Hill, Dorset. HN2:7]  
 10B: 7 October 2002 [Bindon Hill, Dorset. HN2:7]  
 11C: 11 November 2002 [North Hill, Dorset. HN2:7]

*Campylosteira verna* (Fallén) (Tingidae)

- 01B: 7 January 2003 [Great Hill, Dorset. HN2:7]  
 02A: 4 February 1923 [Buckland Hill, Surrey. Female. LondonHets]  
 02F: 28 February 1956 [Wytham Wood, Berkshire. Male. EMM93:49-51]  
 03C: 15 March 1924 [Oxford, Kent. LondonHets]  
 03E: 21 March 1920 [Boxhill, Surrey. Female. LondonHets] 24 March 1907 [Coulsden, Surrey. LondonHets] 24 March 1907 [Walton Heath, Surrey. Male and female. LondonHets]  
 04A: 4 April 1906 [Coulsden, Surrey. LondonHets] 4 April 1954 [Little Chalfont, Buckinghamshire. LondonHets]  
 04B: 8 April 1923 [Oxford, Kent. LondonHets]  
 04C: 13 April 1906 [Coulsden, Surrey. Female. LondonHets]  
 04D: 19 April 1914 [Boxhill, Surrey. LondonHets] 17 April 2001 [Portsmouth, VC11. Hem3:105]  
 04E: 23 April 1907 [Walton Heath, Surrey. LondonHets] 21 April 1923 [Westerham, Kent. LondonHets]  
 05E: 24 May 1986 [Crickley Hill, Gloucestershire. PTBENHS20:67]  
 05F: 26 May 1917 [Royston, Hertfordshire. LondonHets]  
 06C: 15 June 2002 [Haydon Hill, Dorset. HN2:7]  
 06D: 19 June 2002 [Sovell Down, Dorset. HN2:7]  
 07A: 4 July 2002 [Maiden Castle, Dorset. HN2:7]

- 07C: 14 July 2016 [Swyncombe Downs, Oxfordshire Chilterns. Adults and nymph. BJENH30:107-108]  
 07E: 24 July 2002 [Stonehill Down, Dorset. HN2:7]  
 08D: 16 August 1925 [Otford, Kent. Male. LondonHets] 19 August 1915 [Wendover, Buckinghamshire. LondonHets]  
 08F: 31 August 2006 [West Pentire Farm, Crantock, Cornwall. CornwallHets]  
 09A: 2 September 2002 [Fishers Bottom, Dorset. HN2:7]  
 09B: 10 September 1960 [Darenth Chalk Pit, Kent. LondonHets]  
 09E: 25 September 2002 [Haydon Down, Dorset. HN2:7]  
 10A: 1 October 2002 [Giant Hill, Dorset. HN2:7]  
 10B: 7 October 2002 [Bindon Hill, Dorset. HN2:7] 9 October 1963 [Darenth Chalk Pit, Kent. LondonHets]  
 10F: 29 October 1972 [Kiplingcotes, Yorkshire. EMM112:238]  
 11C: 11 November 2002 [North Hill, Dorset. HN2:7]  
 12D: 17 December 1922 [Otford, Kent. LondonHets]  
 12F: 28 December 1985 [Porthleven, Cornwall. CornwallHets]

*Catoplatys fabricii* (Stål) (Tingidae)

- 01B: 7 January 2003 [Great Hill, Dorset. HN2:7]  
 01C: 14 January 1884 [Headley Lane. EMM21:24]  
 04B: 7 April 1912 [Chipstead, Surrey. Male and female. LondonHets]  
 04C: 15 April 2011 [Enstone Quarry, Enstone, Oxfordshire. Adults. Hem1:32]  
 04D: 16 April 2014 [Hugglescote coal waste site, VC55. Hem3:95]  
 05A: 5 May 2013 [Enstone Quarry, Enstone, Oxfordshire. Adult. Hem1:32]  
 05C: 11 May 1912 [Abinger Hammer, Surrey. LondonHets]  
 05D: 17 May 2012 [Enstone Quarry, Enstone, Oxfordshire. Adult. Hem1:32] 17 May 2012 [Enstone Quarry, Enstone, Oxfordshire. Adults. Hem1:32]  
 05E: 25 May 2010 [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. Adult. Hem1:32] 23 May 2010 [Enstone Quarry, Enstone, Oxfordshire. Adults. Hem1:32]  
 05F: 26 May 1997 [Bisley Road Cemetery, Stroud, Gloucestershire. BJENH11:110] 27 May 2013 [Lee Ground Coppice, Botley Wood, VC11. Hem3:105] 31 May 1953 [Little Chalfont, Buckinghamshire. LondonHets]  
 06A: 5 June 2008 [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. Adults. Hem1:32] 3 June 1986 [Minchinhampton Common, Gloucestershire. PTBENHS20:67]  
 06B: 9 June 2008 [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. Adults. Hem1:32] 9 June 2012 [Enstone Quarry, Enstone, Oxfordshire. Adults. Hem1:32] 6 June 2015 [Sleepy Field, Warren Farm, near Ewell, Surrey. BJENH29:28]  
 06C: 13 June 2012 [Dry Sandford Pit, Dry Sandford, VC22. Adult. Hem1:32]  
 06D: 17 June 2012 [Bradwell Grove Airfield, Carterton, Oxfordshire. Adults. Hem1:32] 19 June 1977 [Friston Forest, East Sussex. PTBENHS17:18-19]  
 06E: 25 June 2018 [Colney Heath, VC20. Hem6:220] 21 June 2010 [Greenham Common, Newbury, Berkshire. Adults. Hem1:32] 22 June 2010 [Greenham Common, Newbury, Berkshire. Adult. Hem1:32] 21 June 1958 [Whitley Common, Surrey. Adults. Ent92:6-13]  
 06F: 29 June 1986 [Ashchurch, near Tewkesbury, Gloucestershire. PTBENHS20:67] 29 June 2013 [Enstone Quarry, Enstone, Oxfordshire. Adult and nymphs. Hem1:32] 26 June 1976 [Lewes Downs, East Sussex. PTBENHS17:18-19]  
 07A: 1 July 2013 [Bradwell Grove Airfield, Carterton, Oxfordshire. Nymph. Hem1:32] 4 July 2010 [Lindrick Quarry, Rotherham, VC63. Adult. HN16:13]  
 07C: 12 July 2008 [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. Adults. Hem1:32] 11 July 2011 [Enstone Quarry, Enstone, Oxfordshire. Adults. Hem1:32]  
 07D: 16 July 2014 [Helmdon, VC32. Nymph. Hem2:27]  
 07E: 25 July 2012 [Enstone Quarry, Enstone, Oxfordshire. Nymph. Hem1:32]  
 07F: 27 July 2009 [Enstone Quarry, Enstone, Oxfordshire. Adult. Hem1:32] 28 July 2013 [Thrupp Lake, Radley, VC22. Adults. Hem1:32]  
 08A: 1 August 2013 [Thrupp Lake, Radley, VC22. Adult and nymph. Hem1:32]

- 08B: 6 August 2008 [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. Adult. Hem1:32]  
 08C: 13 August 2012 [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. Adults and nymphs. Hem1:32]  
 08D: 17 August 1962 [Swanscombe, Kent. LondonHets] 19 August 1915 [Wendover, Buckinghamshire. LondonHets]  
 08E: 25 August 1935 [Headley Lane, Surrey. Males and females. LondonHets]  
 09B: 9 September 2012 [Bradwell Grove Airfield, Carterton, Oxfordshire. Adults and nymph. Hem1:32] 9 September 2012 [Bradwell Grove Airfield, Carterton, Oxfordshire. Nymph. Hem1:32] 7 September 1935 [Headley Lane, Surrey. LondonHets]  
 09C: 12 September 2012 [Dry Sandford Pit, Dry Sandford, VC22. Adult. Hem1:32]  
 09D: 18 September 1908 [Dartford, Kent. LondonHets] 18 September 1935 [Uxbridge/Harefield, Middlesex. Ent71:148-153]  
 09E: 24 September 1910 [Chipstead, Surrey. Female. LondonHets]  
 09F: 29 September 1933 [Uxbridge/Harefield, Middlesex. Ent71:148-153]  
 10B: 6 October 1934 [Uxbridge/Harefield, Middlesex. Ent71:148-153]  
 10C: 11 October 1953 [Little Chalfont, Buckinghamshire. LondonHets]

*Corythucha ciliata* (Say) (Tingidae)

- 10B: 6/10 October 2006 [East of Bedford, Bedfordshire. BJENH20:233-240]

*Derephysia foliacea* (Fallén) (Tingidae)

- 01E: 24 January 1895 [Plumstead, Kent. LondonHets]  
 03B: 7 March 1936 [Bovingdon, Hertfordshire. LondonHets]  
 07A: 2 July 1911 [Boxhill, Surrey. Male. LondonHets] 3 July 1946 [Finchley, Middlesex. LondonHets]  
 07C: 15 July 1895 [Aranmore, West Galway. IrelandHets] 14 July 2004 [Nare Head, Cornwall. CornwallHets]  
 07D: 20 July 1960 [Blackheath, Kent. Males. LondonHets] 20 July 1964 [Blackheath, Kent. LondonHets] 16 July 1912 [Southwold. Butler1923] 17 July 1933 [Woking, Surrey. LondonHets] 19 July 1933 [Woking, Surrey. LondonHets]  
 07E: 23 July 1911 [Chipstead, Surrey. Female. LondonHets] 21 July 1997 [Silligrove Farm, VC40. Hem5:155]  
 07F: 27 July 2006 [Black Head and north of Pedn-myin, Cornwall. CornwallHets] 30 July 1911 [Ranmore Common, Surrey. LondonHets] 31 July 1960 [St John's Wood, London, Middlesex. LondonHets] 28 July 1960 [Widford, Essex. LondonHets]  
 08A: 2 August 2005 [Black Head and north of Pedn-myin, Cornwall. CornwallHets] 4 August 2006 [Gillan Harbour, Cornwall. CornwallHets] 2 August 1926 [Otford, Kent. Male and female. LondonHets] 4 August 1960 [Sharpenhoe Clappers, Bedfordshire. EMM97:32-33] 5 August 1962 [Stanford-le-Hope, Essex. LondonHets]  
 08B: 7 August 1958 [Blackheath, Kent. Adult. LondonHets] 9 August 1908 [Coulsden, Surrey. Male. LondonHets] 8 August 1960 [Haynes, Bedfordshire. EMM97:32-33] 7 August 1999 [Lantic Bay, Cornwall. CornwallHets] 10 August 2006 [Pordenack Point and Gwynver, Cornwall. CornwallHets] 8 August 2006 [Predannack Wollas and Gew Graze, Cornwall. CornwallHets]  
 08C: 13 August 1900 [Blackheath, Kent. LondonHets] 14 August 1980 [Brandon Park, VC26. Hem4:19] 14 August 1910 [Chipstead, Surrey. Male. LondonHets] 15 August 1937 [Eynsford, Kent. PTSLENHS1937-38:49-50] 11 August 1999 [Lantic Bay, Cornwall. CornwallHets] 15 August 2006 [Loe Bar, Cornwall. CornwallHets] 11 August 1960 [St John's Wood, London, Middlesex. LondonHets]  
 08D: 17 August 1957 [Blackheath, Kent. LondonHets] 16 August 1964 [Blackheath, Kent. LondonHets] 17 August 2006 [Gorrangorras Creek, Penryn, Cornwall. CornwallHets] 20 August 1922 [Otford, Kent. LondonHets] 20 August 2006 [Porthcurno, Cornwall. CornwallHets] 20 August 2006 [Porthguarnon Cove, Cornwall. CornwallHets] 20 August 2006 [Porthgwarra, Cornwall. CornwallHets] 17 August 1960 [Stotfold, Bedfordshire. EMM97:32-33] 19 August 2006 [Venton Farm, Cornwall. CornwallHets]

- 08E: 22 August 1964 [Brook, Kent. PTSLENHS1964:37-38] 21 August 1976 [Dagnam Park, Essex. LondonHets] 25 August 1906 [Dartford, Kent. Male. LondonHets] 24 August 2006 [Kynance, Cornwall. CornwallHets]  
 08F: 26 August 1963 [Blackheath, Kent. LondonHets] 26 August 2006 [Harbour Cove, Padstow, Cornwall. CornwallHets] 31 August 1966 [Inchcailloch, Stirlingshire. EMM114:21-24] 31 August 1993 [Smiths Covert, Barnsley, Gloucestershire. GloucsHets]  
 09B: 6 September 1924 [Otford, Kent. Male. LondonHets] 7 September 1935 [West Hyde, Hertfordshire. Adults. LondonHets]  
 09C: 14 September 1962 [Blackheath, Kent. LondonHets] 12-14 September 1955 [Near Abbotsbury, Dorset. EMM91:282-283] 14 September 1934 [West Hyde, Hertfordshire. Nymph. LondonHets]  
 09D: 19 September 1937 [Harpenden, Hertfordshire. LondonHets] 17 September 1992 [Kynance, Cornwall. CornwallHets] 18 September 1879 [Near Norwich. EMM16:114]  
 09E: 25 September 1992 [Porthleven, Cornwall. CornwallHets]  
 10B: 10 October 1891 [Boxhill, Surrey. LondonHets] 9 October 1935 [Imperial College Biological Field Station, Slough, Buckinghamshire. JSBE1:165-166]  
 10C: 12 October 1984 [River Thames, Belvedere, Kent. ERJV101:47-49]  
 10D: 17 October 1954 [Blackheath, Kent. LondonHets]

*Dictyla convergens* (Herrich-Schaeffer) (Tingidae)

- 04D: 16 April 1943 [Bookham Common, Surrey. LondonHets]  
 05C: 13 May 1989 [Turkdean Valley, Gloucestershire. GloucsHets]  
 05D: 20 May 1984 [The Moors NR, VC11. Hem3:105]  
 05E: 21 May 2015 [New Marston Meadows, Oxford. Adults. Hem4:98] 23 May 1952 [Podsmead, Gloucestershire. GloucsHets] 23 May 1971 [Thompson Common, Norfolk. PTBENHS4:119-120]  
 05F: 26 May 1963 [Bookham Common, Surrey. LondonHets] 31 May 1953 [Ditton Park, Datchet, Buckinghamshire. LondonHets] 31 May 1953 [Poyle, Middlesex. LondonHets]  
 06A: 3 June 1895 [Lough Gur, Limerick. IrelandHets] 2 June 1940 [Oswestry, Shropshire. Female. EMM93:49-51]  
 06B: 9 June 1934 [Bookham Common, Surrey. PTSLENHS1934-35:17-19]  
 06C: 14 June 2005 [The Moors NR, Bishop's Waltham, South Hampshire. BJENH19:189]  
 06D: 19 June 2006 [Crayford Stadium Rough, West Kent. BJENH20:193-194] 20 June 2002 [River Rother, Rotherham. HN7:15]  
 06E: 25 June 1956 [Burnham Beeches, Buckinghamshire. LondonHets]  
 07C: 15 July 2011 [Lincoln, VC53. Hem3:85]  
 07D: 19 July 1952 [Chesham, Buckinghamshire. LondonHets] 16 July 1933 [Chobham, Surrey. LondonHets] 17 July 1928 [Gurteen Demesne, near Clonmel, Waterford. Adult and nymph. IrelandHets] 20 July 1991 [Perrotts Brook, Gloucestershire. GloucsHets]  
 07E: 22 July 1899 [Byfleet, Surrey. LondonHets]  
 07F: 31 July 2015 [Marston Vale, Bedfordshire. BJENH29:69-88]  
 08A: 1 August 1948 [Hummocky Field, Totternhoe, Bedfordshire. Nymphs. EMM86:6-8] 4 August 1957 [Rickmansworth, Hertfordshire. LondonHets]  
 08B: 10 August 1942 [Redbourn, Hertfordshire. LondonHets]  
 08D: 16 August 1955 [Bookham Common, Surrey. LondonHets] 18 August 1963 [Hatfield, Hertfordshire. LondonHets]  
 08E: 21 August 1916 [Ruislip, Middlesex. LondonHets]  
 09A: 4 September 1930 [Lough Ennell, Westmeath. IrelandHets]  
 09B: 9 September 1934 [Rickmansworth, Hertfordshire. LondonHets]  
 09C: 13 September 1953 [Bookham Common, Surrey. LondonHets] 15 September 1946 [Long Lane Pit, Tingrith, Bedfordshire. EMM86:6-8]  
 09F: 28 September 1937 [Bookham Common, Surrey. LondonHets]

*Dictyonota fuliginosa* A. Costa (Tingidae)

- 02F: 27 February 1971 [Brownwich cliffs, VC11. Hem3:105]

- 06F: 29 June 1872 [Weybridge. Nymphs. EMM9:119]  
 07A: 3 July 1956 [Silwood Park, Sunninghill, Berkshire. Nymphs. EMM97:32-33]  
 07B: 7 July 1956 [Virginia Water, Surrey. LondonHets]  
 07C: 11 July 1993 [Charlton, London, SE7. Male and females. ERJV105:279] 13 July 2009  
 [Wildmoor Heath, Crowthorne, Berkshire. Hem1:36]  
 07D: 19 July 1954 [Burnham Beeches, Buckinghamshire. EMM90:237] 19 July 1968 [Chobham  
 Common, Surrey. Adults. EMM106:164] 17 July 1956 [Silwood Park, Sunninghill, Berkshire.  
 EMM97:32-33] 17 July 2006 [Wildmoor Heath, Crowthorne, Berkshire. Hem1:36]  
 07E: 25 July 1938 [Chobham, Surrey. LondonHets]  
 07F: 26 July 1934 [Chobham, Surrey. Adult males and females. EMM71:113-114] 28 July 1934  
 [Chobham, Surrey. Male and Female. LondonHets] 31 July 1958 [Chobham, Surrey.  
 LondonHets] 26 July 1953 [Hounslow Heath, Middlesex. LondonHets] 31 July 1958 [Woking,  
 Surrey. LondonHets]  
 08A: 2 August 2015 [Picnic area and Ponds of Willingham Forest, VC54. Hem3:85]  
 08B: 8 August 1936 [Hillingdon, Middlesex. Ent71:148-153] 8 August 1936 [Swakeley's estate,  
 Uxbridge, Middlesex. LondonHets]  
 08C: 15 August 1896 [Wickham Lane, Plumstead, Kent. LondonHets] 13 August 1904 [Woking,  
 Surrey. LondonHets]  
 09A: 5 September 1965 [Dungeness, Kent. PTSLENHS1965:91]  
 09B: 8 September 1913 [Byfleet, Surrey. LondonHets]  
 09E: 24 September 2013 [Santon Warren, VC28. Hem4:38]

*Dictyonota strichnocera* Fieber (Tingidae)

- 06D: 17 June 2001 [Colliford Lake, Cornwall. CornwallHets]  
 06E: 22 June 1912 [Burnham Beeches, Buckinghamshire. LondonHets] 22 June 1989 [Cadsonbury  
 Down, Cornwall. Nymph. CornwallHets] 25 June 2018 [Colney Heath, VC20. Hem6:220]  
 06F: 30 June 1989 [Newdowns Head, Cornwall. CornwallHets]  
 07B: 8 July 1950 [Byfleet, Surrey. LondonHets] 9 July 1950 [Byfleet, Surrey. LondonHets] 8 July  
 1995 [Dowdeswell Wood, Gloucestershire. GloucsHets] 10 July 1924 [Tooting Bec, Surrey.  
 Nymphs. LondonHets]  
 07C: 14 July 1925 [Chalfont St Peter, Buckinghamshire. LondonHets] 15 July 1911 [Chingford,  
 Epping Forest, Essex. LondonHets] 13 July 1912 [Epping Forest, Essex. Nymphs.  
 EMM58:179-182] 12 July 1952 [Oxshott Heath and Esher Common, Surrey. PTSLENHS1952-  
 53:83-84] 15 July 1989 [Rodborough Common, Gloucestershire. GloucsHets]  
 07D: 20 July 1946 [Ashted, Surrey. PTSLENHS1946-47:73-74] 19 July 1968 [Chobham  
 Common, Surrey. Adult. EMM106:164] 17 July 1948 [Clophill, Bedfordshire. EMM86:6-8] 18  
 July 1953 [Stoke Common, Buckinghamshire. LondonHets]  
 07E: 22 July 1933 [Chobham, Surrey. Male. LondonHets] 21 July 2006 [Croft Pascoe, Cornwall.  
 CornwallHets]  
 07F: 26 July 1934 [Chobham, Surrey. Adults. EMM71:113-114] 30 July 1960 [Danbury Common,  
 Essex. LondonHets] 29 July 1994 [Gentleshaw Common, VC39. Hem3:95] 31 July 1924 [No  
 Man's Land, St. Albans, Hertfordshire. LondonHets] 28 July 1951 [Oxshott Heath, Surrey.  
 LondonHets] 30 July 1944 [Scratch Wood, Edgeware, Middlesex. LondonHets]  
 08A: 1 August 1954 [Harpenden, Hertfordshire. LondonHets] 2 August 1958 [Virginia Water,  
 Surrey. LondonHets]  
 08B: 10 August 1916 [Chorley Wood, Hertfordshire. LondonHets] 9 August 1899 [Reigate,  
 Surrey. LondonHets]  
 08C: 11 August 1953 [Oxshott Heath, Surrey. LondonHets] 15 August 1977 [White Downs,  
 Dorking, Surrey. PTBENHS17:18-19]  
 08D: 16 August 1985 [Little Wenlock, VC40. Hem5:155] 17 August 1985 [Newborough Warren,  
 Anglesey. HSGN6:3] 19 August 1985 [West of Cinderford, Forest of Dean, Gloucestershire.  
 GloucsHets] 18 August 1933 [Woking, Surrey. LondonHets]  
 08E: 25 August 1962 [Blackheath, Kent. LondonHets] 24 August 1981 [S. Heighton Downs.  
 PTBENHS17:18-19]

- 08F: 27 August 1932 [Horsell, Surrey. Female. LondonHets] 28 August 1904 [Oxshott Heath, Surrey. LondonHets] 28 August 1897 [Shirley Common, Surrey. LondonHets] 28 August 1948 [Whipsnade Heath, Bedfordshire. EMM86:6-8]  
 09A: 1 September 1991 [Astonbridge Hill, Dean, Gloucestershire. GloucsHets] 3 September 1977 [Cuckmere Haven, East Sussex. PTBENHS17:18-19] 1 September 1934 [Rickmansworth, Hertfordshire. LondonHets]  
 09B: 10 September 1994 [Bledington Heath, Gloucestershire. GloucsHets]  
 09C: 12 September 1936 [Byfleet. PTSLENHS1936-37:39-40] 15 September 1990 [Merring Meand NR, Plumhill, Gloucestershire. GloucsHets]  
 09E: 23 September 1956 [Chobham, Surrey. LondonHets] 22 September 2014 [Holme, VC28. Hem4:38]

*Kalama tricornis* (Schrank) (Tingidae)

- 05E: 21 May 1984 [Duchy College, Rosewarne, Cornwall. CornwallHets]  
 06A: 5 June 1984 [Duchy College, Rosewarne, Cornwall. CornwallHets]  
 06B: 6 June 1893 [Lewisham, Kent. LondonHets]  
 06C: 11 June 1893 [Oxted, Surrey. LondonHets]  
 06D: 20 June 2019 [Between Two Mile Bottom and Santon Downham, West Norfolk. Hem6:248] 18 June 2019 [Icklingham, West Suffolk. Hem6:247]  
 06E: 23 June 1912 [Boxhill, Surrey. LondonHets] 25 June 1966 [Great Culand Chalk Pit, Burnham, Kent. PTSLENHS1966:118] 22 June 1906 [Harlech, Merioneth. Female. EMM92:54-64] 21 June 2019 [Near Two Mile Bottom, West Norfolk. Hem6:248]  
 06F: 27 June 1989 [West of Hore Point, East Cornwall. BJENH4:119-121]  
 07B: 7 July 1920 [Mother Ivy's Bay, Cornwall. Adult and nymph. AntGuests] 9 July 1983 [Upton Towans, Cornwall. CornwallHets] 8 July 2006 [Upton Towans, Cornwall. CornwallHets]  
 07D: 16 July 1911 [Chipstead, Surrey. Male and Female. LondonHets] 19 July 1982 [East bank of Hamble estuary, VC11. Hem3:105]  
 07E: 22 July 1954 [Hedgerley, Buckinghamshire. LondonHets]  
 07F: 30 July 1905 [Headley Lane, Surrey. LondonHets]  
 08A: 5 August 1956 [Boxhill, Surrey. LondonHets] 3 August 1898 [Lord's Wood, Merstham, Surrey. LondonHets]  
 08B: 8 August 1956 [Abinger, Surrey. LondonHets]  
 08C: 13 August 1976 [Duchy College, Rosewarne, Cornwall. CornwallHets] 13 August 2002 [Hog Cliff, Dorset. HN2:7]  
 08D: 17 August 1985 [Newborough Warren, Anglesey. HSGN6:3] 20 August 2005 [North of Aire Point, Cornwall. CornwallHets]  
 08F: 27 August 1977 [Chobham Common, Surrey. PTBENHS17:18-19] 29 August 1958 [Folkestone Warren, Kent. EMM95:96] 31 August 2006 [Pentireglaze, Cornwall. CornwallHets] 31 August 2006 [Port Quin valley, Cornwall. CornwallHets] 28 August 1916 [Rickmansworth, Hertfordshire. LondonHets] 27 August 1961 [West of Duddingston, near Edinburgh. EMM97:230]  
 09A: 2 September 2002 [Fishers Bottom, Dorset. HN2:7]  
 09B: 6 September 2015 [Felmingham cutting, VC27. Hem4:41]  
 09C: 12 September 2013 [Carrstone Pit, Snettisham, VC28. Hem4:38] 14 September 2006 [Southfields, Belvedere, West Kent. BJENH20:193-194]  
 09D: 19 September 1963 [Maze Hill, Blackheath, Kent. LondonHets]  
 10A: 1 October 2002 [Giant Hill, Dorset. HN2:7]

*Lasiacantha capucina* (Germar) (Tingidae)

- 03F: 26 March 2004 [Lower Bosistow Cliff, Cornwall. CornwallHets]  
 04D: 18 April 1998 [Lower Predannack Cliff, Cornwall. CornwallHets]  
 05A: 5 May 1999 [Boscregan Cliff Cornwall. CornwallHets]  
 05C: 12 May 1996 [Gew-graze, Cornwall. CornwallHets]  
 05D: 18 May 1994 [Holestrow, Cornwall. CornwallHets]

- 05E: 23 May 1990 [Between Chapel Porth and Porth Towan, West Cornwall. BJENH4:119-121]  
 23 May 1990 [Chapel Porth, Cornwall. BJENH4:43] 21 May 1989 [Pol Cornick, Lower  
 Predannack Cliff, West Cornwall. BJENH4:119-121] 23 May 1999 [Rinsey Head, Cornwall.  
 CornwallHets] 24 May 1999 [Rinsey Head, Cornwall. CornwallHets]  
 05F: 28 May 1989 [Beagles Point, West Cornwall. BJENH4:119-121] 29 May 1989 [Kynance  
 Cliff, West Cornwall. BJENH4:119-121] 31 May 2005 [Strumble Head, Pembrokeshire.  
 Brachypters. HN21:8]  
 06B: 7 June 1989 [Chyanvounder Cliff, Cornwall. CornwallHets] 7 June 1989 [Chyvarloe Cliffs,  
 West Cornwall. BJENH4:119-121] 7 June 2000 [Lower Predannack Cliff, Cornwall.  
 CornwallHets]  
 06C: 15 June 1989 [Lizard Point, West Cornwall. BJENH4:119-121] 14 June 1989 [North of Parc  
 Bean Cove, Lower Predannack Cliff, West Cornwall. BJENH4:119-121]  
 06D: 18 June 2001 [Mullion Cliffs, Cornwall. CornwallHets]  
 07A: 4 July 1989 [Nare Head, East Cornwall. BJENH4:119-121]  
 07B: 9 July 1989 [Mullion Cliffs, West Cornwall. BJENH4:119-121]  
 07C: 13 July 2006 [Mullion Cliffs, Cornwall. CornwallHets] 14 July 2004 [Nare Head, Cornwall.  
 CornwallHets]  
 07E: 21 July 1970 [Caerthillian Cove, Cornwall. CornwallHets]  
 09D: 20 September 1992 [Predannack, West Cornwall. BJENH7:174-175]  
 09E: 22 September 1998 [Kynance Cove, Cornwall. CornwallHets]  
 10A: 1 October 1932 [Lizard, Cornwall. TSBE1:51-84]  
 10F: 27 October 1997 [Kynance Cove, Cornwall. CornwallHets] 26 October 1997 [Rinsey Head,  
 Cornwall. CornwallHets]

*Oncochila simplex* (Herrich-Schaeffer) (Tingidae)

- 06A: 3 June 1934 [New Forest. EMM71:113-114] 5 June 1986 [Standish Wood, Gloucestershire.  
 PTBENHS20:67]  
 08A: 5 August 1959 [The Warren, Folkstone. LondonHets]  
 09B: 9 September 1984 [Arundel, Sussex. PTBENHS18:20]

*Physatocheila dumetorum* (Herrich-Schaeffer) (Tingidae)

- 02E: 21 February 1952 [Gloucester, Gloucestershire. GloucsHets]  
 04C: 13 April 1946 [Boddington, Gloucestershire. GloucsHets] 13 April 1961 [Higham, Kent.  
 LondonHets]  
 04D: 18 April 1931 [Effingham. PSLENHS1931-32:55]  
 04F: 27 April 2014 [Brandon, VC28. Hem4:38]  
 05A: 1 May 1981 [Erisey Barton, Cornwall. CornwallHets]  
 05C: 11 May 2009 [Bulford Field and Dumbell Copse, VC8. Hem5:188] 13 May 2015 [Cockshot  
 Wood, east of Wetherby, VC64. HN23:12]  
 05D: 16 May 1996 [Chynhalls Point, Cornwall. CornwallHets]  
 05E: 23 May 2013 [SP45, VC32. Hem3:95]  
 05F: 29 May 1909 [Royston, Hertfordshire. LondonHets] 28 May 1917 [Royston, Hertfordshire.  
 LondonHets]  
 06A: 5 June 1898 [Mickleham, Surrey. LondonHets] 4 June 2013 [SK5039, VC56. Hem3:95]  
 06B: 8 June 2000 [Bynorth Cliff, Cornwall. CornwallHets] 9 June 1963 [Higham, Kent.  
 LondonHets]  
 07D: 20 July 2006 [Haye Farm, St Dominick, Cornwall. CornwallHets]  
 07E: 22 July 1949 [Ockham, Surrey. LondonHets]  
 07F: 29 July 1992 [Bettisfield Moss, VC40. Hem5:155] 28 July 2006 [Pennance Point, Swanpool,  
 Cornwall. CornwallHets]  
 08A: 4 August 2006 [Cadgwith, Cornwall. CornwallHets] 1 August 2010 [Concord Golf Course,  
 near Woolley Wood, north Sheffield, VC63. Adults. HN16:13] 4 August 2006 [Gillan Harbour,  
 Cornwall. CornwallHets] 3 August 2006 [Lundy Hole, St Minver Highlands, Cornwall.  
 CornwallHets]

- 08B: 6 August 2006 [Between Trefusis Point and Mylor Harbour, Cornwall. CornwallHets] 7 August 2006 [Pentire Point West, Crantock, Cornwall. CornwallHets] 8 August 2006 [Predannack Wollas, Cornwall. CornwallHets] 10 August 2006 [Tregiffian Vean Cliff, Cornwall. CornwallHets]  
 08C: 15 August 2006 [Chyvarloe, Cornwall. CornwallHets] 15 August 2014 [Clifton Heath, VC23. Hem2:58] 15 August 2005 [Hoe Point to Pestreath. CornwallHets] 15 August 1992 [Purton Timber Ponds, Gloucestershire. GloucsHets]  
 08D: 17 August 2006 [Gorranorra Creek, Penryn, Cornwall. CornwallHets] 19 August 2006 [Hoe Point to Pestreath. CornwallHets] 20 August 2006 [Porth Chapel and Porthgwarra, Cornwall. CornwallHets]  
 08E: 24 August 2006 [Kynance Cove, Cornwall. CornwallHets]  
 08F: 26 August 2006 [Frogmore Farm, Cornwall. CornwallHets] 26 August 2006 [Harbour Cove, Padstow, Cornwall. CornwallHets] 29 August 2006 [Mawnan Church to Porth Saxon, Cornwall. CornwallHets] 31 August 2006 [Port Quinn valley, Cornwall. CornwallHets] 29 August 2006 [St Saviour's Point and Pencarrow Head, Lanteglos, Cornwall. CornwallHets]  
 09B: 9 September 1951 [Bookham Common, Surrey. LondonHets] 9 September 1985 [Daymer Bay, Cornwall. CornwallHets] 6 September 2015 [Felmingham cutting, VC27. Hem4:41]  
 09C: 14 September 1947 [Ashted, Surrey. PTSLENHS1947-48:71] 12 September 2019 [Grounds of York Hull Road Travelodge, York. Hem6:265] 12-14 September 1955 [The Fleet, near Abbotsbury, Dorset. EMM91:282-283]  
 09E: 24 September 1892 [Boxhill, Surrey. LondonHets] 24 September 2004 [Croesnewydd railway, VC50. Hem6:218]  
 10B: 7 October 2010 [Near Bolton-on-Deane, Barnsley, VC63. Adults. HN16:13]

*Physatocheila harwoodi* China (Tingidae)

- 09A: 1 September 1936 [Witchampton, Dorset. EMM72:270-272]

*Physatocheila smreczynskii* China (Tingidae)

- 04B: 9 April 1989 [Scaynes Hill, near Haywards Heath, Sussex. BJENH2:187]  
 05C: 14 May 1924 [Windsor Forest, Berkshire. LondonHets]  
 05D: 20 May 1989 [Boconnoc Park, East Cornwall. BJENH4:119-121]  
 06A: 5 June 2007 [Forest Cottage Orchard, Ashclyst Forest, South Devon. BJENH21:184]  
 07A: 2 July 1950 [Brockenhurst. PTSLENHS1950-51:71-72]  
 07D: 20 July 2006 [Haye Farm, Bohetherick, St Dominick, East Cornwall. BJENH20:232]  
 08E: 23 August 2004 [Slew Orchard, Sydenham Damerel, South Devon. BJENH20:232]  
 08F: 27 August 1984 [New Forest, Hampshire. PTBENHS18:20]  
 09D: 18 September 1994 [New Forest, South Hampshire. BJENH8:207]

*Stephanitis rhododendri* Horváth (Tingidae)

- 07B: 6 July 1929 [Paddock Wood, Kent. Nymphs. LondonHets]  
 07C: 14 July 1951 [Hounslow Heath, Middlesex. LondonHets]  
 07D: 20 July 1960 [Blackheath, Kent. LondonHets]  
 07E: 23 July 1993 [Rhododendron Garden, Dulwich Park, London, Surrey. BJENH6:139-140]  
 07F: 28 July 1916 [Camberley, Surrey. Adults. EMM52:207-208] 28 July 1937 [Friary Hill, Weybridge, Surrey. Ent71:23-24]  
 08A: 1 August 1950 [Hounslow Heath, Middlesex. LondonHets]  
 08B: 6 August 1954 [Shirley, Surrey. LondonHets] 10 August 1927 [West Ealing, Middlesex. LondonHets]  
 08D: 17 August 1964 [Blackheath, Kent. LondonHets]  
 08E: 21 August 1956 [Little Chalfont, Buckinghamshire. LondonHets]  
 09B: 9 September 1993 [Rhododendron Garden, Dulwich Park, London, Surrey. BJENH6:139-140]  
 09D: 17 September 1956 [Little Chalfont, Buckinghamshire. LondonHets]  
 10D: 17 October 1996 [Dulwich Park, Surrey. BJENH10:177]

*Stephanitis takeyai* Drake & Maa (Tingidae)

- 06C: 15 June 2011 [St Barnabas School, Jericho, Oxford. ERJV124:204-205]  
 07B: 7 July 2013 [Stubington, VC11. Hem3:105]  
 08D: 19 August 2009 [Box Hill, Surrey. ERJV124:24] 17 August 2018 [Bricket Wood Common, VC20. Hem6:220]  
 08E: 23 August 2009 [Zig Zag Car Park, Box Hill, Surrey. ERJV124:24]  
 10C: 15 October 2005 [RHS Garden, Wisley, Surrey. BJENH19:265]  
 10D: 20 October 2013 [Edenthorpe, VC63. Adults. HN21:8]

*Tingis ampliata* (Herrich-Schaeffer) (Tingidae)

- 02D: 19 February 1939 [Mill Hill, Middlesex. LondonHets]  
 02E: 22 February 1964 [Beechen Wood, Eynsford, Kent. LondonHets] 25 February 2013 [Pentre Maelor, VC50. Hem6:218]  
 02F: 28 February 1959 [Blackheath, Kent. LondonHets]  
 03A: 1 March 1953 [Little Chalfont, Buckinghamshire. LondonHets]  
 03C: 14 March 1959 [Blackheath, Kent. LondonHets] 15 March 1961 [Blackheath, Kent. Adult and nymph. LondonHets] 13 March 1943 [Northwood, Middlesex. LondonHets]  
 03E: 21 March 1959 [Blackheath, Kent. LondonHets]  
 04A: 3 April 1914 [Gravesend, Kent. Male and female. LondonHets]  
 04D: 16 April 1900 [Manor Farm Lane, Lee, Kent. LondonHets]  
 04E: 21 April 1953 [Grounds of the Rothamsted Experimental Station, Harpenden, Hertfordshire. PTSLENHS1953-54:4] 22 April 1933 [Imperial College Biological Field Station, Slough, Buckinghamshire. TSBE2:47-67]  
 04F: 30 April 1977 [Dagnam Park, Essex. LondonHets] 29 April 1944 [Walham, Gloucestershire. GloucsHets]  
 05A: 4 May 1952 [Bookham Common, Surrey. LondonHets] 3 May 1947 [Fancott Gravel Pit, Bedfordshire. EMM86:6-8]  
 05B: 7 May 1960 [Blackheath, Kent. LondonHets] 9 May 1960 [Blackheath, Kent. LondonHets] 9 May 1970 [Pilgrim Fort, Caterham, Surrey. LondonHets]  
 05C: 14 May 1894 [Blackheath, Kent. LondonHets] 11 May [Bookham Common, Surrey. LondonHets] 15 May 1893 [Lewisham, Kent. LondonHets] 11 May 1980 [Maidenhead, Berkshire. EMM116:132] 11 May 1980 [Mitcham Common, Surrey. LondonHets] 14 May 1960 [Shoreham, Kent. LondonHets] 14 May 1995 [Washingborough Junction, VC53. Hem3:85]  
 05D: 16 May 1943 [Finchley, Middlesex. LondonHets] 17 May 1924 [Hale End, London, E4. ERJV37:58-59] 17 May 1967 [Long Ashton Research Station, Bristol. Females. Ent101:202-204] 18 May 1947 [Wymington Scrubs, Bedfordshire. EMM86:6-8]  
 05E: 24 May 1947 [Ashted Common, Surrey. PTSLENHS1947-48:61-62] 24 May 1963 [Coulsdon, Surrey. LondonHets] 25 May 1963 [Horton Kirby, Kent. LondonHets] 25 May 2017 [M4 motorway north-west of Baydon, VC7. Hem6:230] 24 May 1960 [Ottershaw, Surrey. LondonHets]  
 05F: 30 May 1954 [Banstead Downs, Surrey. LondonHets] 29 May 1955 [Chobham Common, Surrey. LondonHets] 26 May 1957 [Chorley Wood, Hertfordshire. LondonHets] 26 May 1955 [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. LondonHets] 27 May 1911 [Oxshott, Surrey. LondonHets] 26 May 1917 [Royston, Hertfordshire. LondonHets] 28 May 1985 [Sherborne, Gloucestershire. GloucsHets] 28 May 1926 [Uxbridge, Middlesex. LondonHets]  
 06A: 1 June 1995 [Barlaston Common, VC39. Hem3:95] 3 June 1981 [Dagnam Park, Essex. LondonHets] 1 June 1968 [Effingham, Surrey. LondonHets] 2 June 1957 [Fulmer, Buckinghamshire. LondonHets] 4 June 1950 [Golders Hill, Middlesex. LondonHets] 2 June 1951 [Ivinghoe Beacon, Buckinghamshire. LondonHets] 1 June 1933 [Knaphill, Woking, Surrey. LondonHets] 4 June 1953 [Rothamsted, Harpenden, Hertfordshire. Including eggs. TSBE12:93-112]  
 06B: 9 June 1934 [Bookham Common, Surrey. PTSLENHS1934-35:17-19] 8 June 1950 [Hampstead Heath, Middlesex. LondonHets] 10 June 1953 [Hedgerley, Buckinghamshire.

- LondonHets] 8 June 1953 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112] 10 June 1953 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112]
- 06C: 13 June 1955 [Burnham Beeches, Buckinghamshire. LondonHets] 15 June 1912 [Epping Forest, Essex. Butler1923] 12 June 1953 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112] 15 June 1953 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112] 15 June 1891 [Woking, Surrey. LondonHets]
- 06D: 16 June 1959 [Blackheath, Kent. LondonHets] 17 June 1983 [Chalk Lane, The King's Forest, VC26. Hem4:19] 18 June 1955 [Cripplegate, Middlesex. LondonHets] 16 June 1983 [Croxtan, VC28. Hem4:19] 20 June 1982 [Dagnam Park, Essex. LondonHets] 20 June 1998 [Gew Graze, Cornwall. CornwallHets] 16 June 2008 [Hencott Pool, VC40. Hem3:95] 17 June 2004 [Lowland Point, Cornwall. CornwallHets] 16 June 1991 [Newbridge Meadow, Bourton-on-the-Water, Gloucestershire. GloucsHets] 18 June 1953 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112] 19 June 1960 [Shoreham, Kent. LondonHets]
- 06E: 25 June 1980 [Dagnam Park, Essex. LondonHets] 25 June 1977 [Northward Hill NNR, Kent. PTBENHS11:67-68] 22 June 1953 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112] 25 June 1953 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112]
- 06F: 30 June 1968 [Chislehurst, Kent. LondonHets] 29 June 1953 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112] 30 June 1933 [Woking, Surrey. LondonHets]
- 07A: 2 July 1958 [Blackheath, Kent. LondonHets] 3 July 1956 [Bricket Wood Common, Hertfordshire. LondonHets] 3 July 1960 [Charlton, Kent. LondonHets] 4 July 1933 [Woking, Surrey. LondonHets]
- 07B: 7 July 1958 [Blackheath, Kent. LondonHets] 6 July 1955 [Darenth Wood, Kent. LondonHets] 6 July 1902 [Epping Forest, Essex. Male. LondonHets]
- 07C: 12 July 1958 [Banstead Downs, Surrey. LondonHets] 15 July 1954 [Harpenden, Hertfordshire. LondonHets] 14 July 1953 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112]
- 07D: 20 July 1991 [Perrott's Brook Marsh, Gloucestershire. GloucsHets] 20 July 2006 [Polbrock, Cornwall. CornwallHets] 16 July 1992 [Sherborne, Gloucestershire. GloucsHets] 20 July 1983 [Two Mile Bottom, Thetford Forest, VC28. Hem4:19]
- 07E: 24 July 1954 [Abbey Wood Marshes, Kent. LondonHets] 23 July 1961 [Banstead Downs, Surrey. LondonHets] 22 July 1934 [Chobham, Surrey. Female. LondonHets] 21 July 1945 [Magor, Monmouthshire. EMM91:143] 22 July 1953 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112] 23 July 1953 [Rothamsted, Harpenden, Hertfordshire. Eggs. TSBE12:93-112] 23 July 1960 [Scratch Wood, Edgware, Middlesex. LondonHets]
- 07F: 27 July 1948 [Barford, Warwickshire. Nymph. EMM93:49-51] 29 July 1950 [Bookham, Surrey. PTSLENHS1950-51:75-76] 31 July 1960 [Chelmsford, Essex. LondonHets] 30 July 1950 [Epping Forest, Essex. LondonHets]
- 08A: 5 August 1950 [Bookham Common, Surrey. LondonHets] 3 August 1953 [Rothamsted, Harpenden, Hertfordshire. Nymphs. TSBE12:93-112]
- 08B: 9 August 1984 [Darland's Lake NR, Totteridge, Hertfordshire. LondonHets] 10 August 1985 [North-east of Sapperton, Gloucestershire. GloucsHets] 6 August 1953 [Rothamsted, Harpenden, Hertfordshire. Including overwintered adult female. TSBE12:93-112] 8 August 1953 [Rothamsted, Harpenden, Hertfordshire. Nymphs and first new adult of the season. TSBE12:93-112]
- 08C: 15 August 1953 [Bookham Common, Surrey. LondonHets] 12 August 1954 [Harpenden Common, Harpenden, Hertfordshire. Nymphs and overwintered adults. TSBE12:93-112] 14 August 1954 [Harpenden Common, Harpenden, Hertfordshire. Nymphs. TSBE12:93-112]
- 08D: 16 August 1953 [Bookham Common, Surrey. Nymphs. TSBE12:93-112] 19 August 1995 [Field Farm, Nympsfield, Gloucestershire. GloucsHets] 16 August 1954 [Harpenden Common, Harpenden, Hertfordshire. Nymphs and first new adult of the season. TSBE12:93-112]
- 08E: 22 August 1954 [Harpenden, Hertfordshire. LondonHets]
- 08F: 31 August 1955 [Abbey Wood Marshes, Kent. LondonHets] 26 August 1925 [Woodford, Essex. Adults and nymphs. LondonHets]

- 09A: 2 September 1954 [Harpenden Common, Harpenden, Hertfordshire. Adults and nymphs. TSBE12:93-112] 3 September 1954 [Harpenden, Hertfordshire. LondonHets] 3 September 1895 [Kidbrook, Kent. LondonHets]  
 09B: 9 September 1958 [Charlton, Kent. LondonHets] 10 September 1910 [Epping Forest, Essex. LondonHets] 6 September 1953 [Epsom Common, Surrey. Adult and nymph. LondonHets]  
 09D: 20 September 1957 [Plumstead, Kent. Nymph. LondonHets] 17 September 1995 [Winson Meadows, Gloucestershire. GloucsHets]  
 10A: 4 October 1953 [Bookham Common, Surrey. Nymphs. TSBE12:93-112] 3 October 1954 [Harpenden Common, Harpenden, Hertfordshire. Adult. TSBE12:93-112] 2 October 1968 [Long Ashton Research Station, Bristol. Female. EMM109:132-139]  
 10B: 6 October 1962 [Addington, Surrey. PTSLENHS1962:104] 7 October 1962 [Epping Forest, Essex. LondonHets]  
 10C: 13 October 1985 [Perrott's Brook Marsh, Gloucestershire. GloucsHets]  
 10D: 17 October 1983 [Mitcham Common, Surrey. LondonHets]  
 10E: 23 October 1943 [Harefield, Middlesex. LondonHets]  
 10F: 29 October 1918 [Palmer's Green, Middlesex. LondonHets]  
 11B: 8 November [Bookham Common, Surrey. LondonHets]

*Tingis angustata* (Herrich-Schaeffer) (Tingidae)

- 05A: 2 May 1903 [Gosfield, Essex. EMM39:300-301]

*Tingis cardui* (Linnaeus) (Tingidae)

- 01C: 14 January 1884 [Headley Lane. EMM21:24]  
 02E: 21 February 1953 [Gloucester, Gloucestershire. GloucsHets]  
 02F: 27 February 1933 [Rickmansworth, Hertfordshire. Adults. LondonHets]  
 03A: 4 March 1934 [Boxhill, Surrey. Female. LondonHets] 4 March 1923 [Buckland Hill, Surrey. Female. LondonHets]  
 04B: 10 April 1935 [Imperial College Biological Field Station, Slough, Buckinghamshire. JSBE1:165-166]  
 04C: 15 April 1951 [Coombe Hill, Buckinghamshire. LondonHets]  
 04D: 17 April 1891 [Lewisham, Kent. LondonHets]  
 04F: 30 April 2000 [Kenidjack, Cornwall. CornwallHets]  
 05A: 4 May 1952 [Bookham Common, Surrey. LondonHets] 5 May 1960 [Boxhill, Surrey. LondonHets] 2 May 1965 [Higham Marshes, Kent. PTSLENHS1965:56-57]  
 05B: 8 May 1954 [Ardington, Berkshire. EMM93:121-126] 10 May 1954 [Ardington, Berkshire. EMM93:121-126] 10 May 1992 [Orles Wood, Gloucestershire. GloucsHets]  
 05C: 11 May 1912 [Abinger Hammer, Surrey. LondonHets] 12 May 1934 [Albury Mill Pond, Surrey. PTSLENHS1934-35:12-15] 11 May 1954 [Ardington, Berkshire. EMM93:121-126] 12 May 1954 [Ardington, Berkshire. EMM93:121-126] 14 May 1893 [Darenth, Kent. LondonHets] 11 May 1980 [Maidenhead, Berkshire. EMM116:132] 11 May 1950 [Trawscoed, Cardiganshire. Female. EMM92:54-64]  
 05D: 20 May 1944 [Bourton-on-the-Water, Gloucestershire. GloucsHets] 16 May 1994 [Corgerrick Farm, Poltesco, Cornwall. CornwallHets] 18 May 1947 [Forty-foot Lane, Souldrop, Bedfordshire. EMM86:6-8] 17 May 1924 [Hale End, London, E4. ERJV37:58-59] 18 May 1994 [Holestrow, Cornwall. CornwallHets]  
 05E: 22 May 2003 [Gew Graze, Cornwall. CornwallHets] 25 May 1953 [Hedgerley, Buckinghamshire. LondonHets]  
 05F: 29 May 1995 [Carn Naun Point, Cornwall. CornwallHets] 28 May 2000 [Carnwinnick Farm, Trenowth, Cornwall. CornwallHets] 29 May 1955 [Penglais, Aberystwyth, Cardiganshire. Male and female. EMM92:54-64] 27 May 1912 [Royston, Hertfordshire. LondonHets] 31 May 2005 [Southwater Country Park, VC13. Hem6:231]  
 06A: 3 June 1981 [Clahar Bridge, Cornwall. CornwallHets] 1 June 1968 [Effingham, Surrey. LondonHets] 4 June 2005 [Nanterrow, Gwithian, Cornwall. CornwallHets] 5 June 2000 [Rosewall Hill, Cornwall. CornwallHets]

- 06B: 9 June 1964 [Abbey Wood, Kent. Adult. LondonHets] 9 June 1917 [Boxhill, Surrey. LondonHets] 9 June 1963 [Challock, Kent. PTSLENHS1963Part1:67] 8 June 1906 [Darenth, Kent. Male. LondonHets] 6 June 2005 [Portheras Cove, Cornwall. CornwallHets]
- 06C: 13 June 1943 [Finchley, Middlesex. LondonHets] 14 June 1953 [Latimer, Buckinghamshire. LondonHets] 11 June 1950 [Rickmansworth, Hertfordshire. LondonHets]
- 06D: 17 June 1899 [Darenth, Kent. LondonHets] 20 June 1949 [Hampstead Heath, Middlesex. LondonHets]
- 06E: 21 June 1952 [Harefield, Middlesex. LondonHets] 25 June 1977 [Northward Hill NNR, Kent. PTBENHS11:67-68] 22 June 1995 [Twyford Forest, near Colsterworth, VC53. Hem3:86]
- 06F: 27 June 1949 [Hampstead Heath, Middlesex. LondonHets] 27 June 1903 [Hendon, Middlesex. Male. LondonHets]
- 07A: 4 July 1970 [Beechen Wood, Lullingstone Park, Kent. LondonHets] 3 July 1970 [Caerthillian Cove, Cornwall. CornwallHets] 4 July 1965 [Knowle Park, Kent. PTSLENHS1965:59-60]
- 07B: 9 July 1953 [Hounslow Heath, Middlesex. LondonHets] 8 July 1967 [Ruxley Gravel Pit, Kent. LondonHets]
- 07C: 12 July 2006 [Cliffs to south of Sandy Mouth, Cornwall. CornwallHets] 11 July 2003 [West Pentire, West Cornwall. BJENH18:165-170]
- 07D: 20 July 1948 [Blackhaffield's Plantation, Ampthill, Bedfordshire. EMM86:6-8] 20 July 2005 [Churchtown Farm, Saltash, Cornwall. CornwallHets] 20 July 1955 [Derwenlas, Montgomeryshire. Nymphs. EMM92:54-64] 20 July 1947 [Ivel Canal, Broom, Bedfordshire. Adults and nymphs. EMM86:6-8] 16 July 1944 [Rendcomb, Gloucestershire. GloucsHets] 17 July 1955 [Ynyslas, Aberystwyth, Cardiganshire. Male and nymphs. EMM92:54-64]
- 07E: 21 July 1962 [Cowley, Gloucestershire. GloucsHets] 25 July 1948 [Long Lane Pit, Bedfordshire. EMM86:6-8] 21 July 1954 [St Davids, Pembrokeshire. Female. EMM92:54-64] 22 July 1955 [Tregaron Bog Nature Reserve, Cardiganshire. Nymphs. EMM92:221-225]
- 08A: 4 August 1932 [Ashford Dale, East Midlands. EMM68:213-214] 1 August 1920 [Camberley, Surrey. LondonHets] 4 August 1982 [Oxenbourne NR, VC11. Hem3:105]
- 08B: 9 August 1936 [Gomshall, Surrey. PTSLENHS1936-37:30-32] 6 August 2004 [Rinsey, Cornwall. CornwallHets]
- 08C: 15 August 1916 [Rickmansworth, Hertfordshire. LondonHets]
- 08D: 19 August 1906 [Chipstead, Surrey. Male and female. LondonHets] 17 August 1953 [Flatford Mill, East Bergholt, Suffolk. Nymphs. TSBE12:93-112] 19 August 1995 [Gibraltar Point NNR, VC54. Hem3:86] 16 August 1985 [Little Wenlock, VC40. Hem5:155] 19 August 1906 [Mickleham, Surrey. Male and female. LondonHets] 19 August 1985 [West of Cinderford, Forest of Dean, Gloucestershire. GloucsHets]
- 08E: 22 August 1964 [Brook, Kent. PTSLENHS1964:37-38] 24 August 1925 [Demesne, North Kerry. IrelandHets] 25 August 2005 [South Penquite Farm, Blisland, Cornwall. CornwallHets]
- 08F: 30 August 1953 [Flatford Mill, East Bergholt, Suffolk. Nymphs. TSBE12:93-112] 26 August 2006 [Harbour Cove, Padstow, Cornwall. CornwallHets] 27 August 1932 [Horsell Common, Surrey. LondonHets] 28 August 1924 [Kingsdown, Kent. LondonHets] 31 August 2006 [West Pentire Farm, Crantock, Cornwall. CornwallHets] 31 August 1991 [Withington, Gloucestershire. GloucsHets]
- 09A: 4 September 1895 [Boxhill, Surrey. LondonHets]
- 09C: 11 September 1954 [Fawkham, Dartford, Kent. Nymphs. TSBE12:93-112] 11 September 1954 [Fawkham, Kent. TSBE12:93-112] 13 September 1954 [Grain, Isle of Grain, Kent. Nymphs. TSBE12:93-112] 11 September 1954 [Harpenden, Hertfordshire. LondonHets] 15 September 1946 [Long Lane Pit, Bedfordshire. EMM86:6-8]
- 09D: 17 September 1950 [Benfleet, Essex. PTSLENHS1950-51:80-81] 20 September 1954 [Rothamsted, Harpenden, Hertfordshire. TSBE12:93-112]
- 09E: 22 September 1951 [Coombe Hill, Buckinghamshire. LondonHets]
- 09F: 28 September 1937 [Bookham Common, Surrey. LondonHets]
- 10E: 23 October 1943 [Harefield, Middlesex. LondonHets]
- 11E: 25 November 1922 [Otford, Kent. LondonHets]

*Tingis reticulata* Herrich-Schaeffer (Tingidae)

- 04D: 17 April 1943 [Cliffordine, Gloucestershire. GloucsHets]  
 04E: 25 April 1953 [Boxhill, Surrey. LondonHets]  
 05B: 6 May 1923 [Otford, Kent. LondonHets] 6 May 2011 [Whitecross Green Wood, Buckinghamshire. BJENH27:11-12]  
 05D: 19 May 1956 [Chipstead, Surrey. LondonHets] 16 May 1954 [Daneway, Gloucestershire. GloucsHets] 18 May 1958 [Trottiscliffe Downs, Kent. EMM95:96] 18 May 1958 [Trottiscliffe Downs, Kent. EMM95:96]  
 05E: 24 May 2010 [Whitecross Green Wood, Buckinghamshire. BJENH27:11-12]  
 06A: 3 June 1962 [Wood Walton Fen, Huntingdonshire. PTSLENHS1962:92]  
 06B: 10 June 1951 [Amersham, Buckinghamshire. EMM90:250] 7 June 1925 [Boxhill, Surrey. LondonHets]  
 06E: 24 June 1951 [Boxhill, Surrey. PTSLENHS1951-52:xvi]  
 07E: 23 July 1932 [Box Hill, Surrey. PTSLENHS1932-33:90-91]  
 08A: 5 August 1900 [Box Hill, Surrey. EMM39:69-70]  
 08B: 7 August 2008 [Whitecross Green Wood, Buckinghamshire. BJENH27:11-12]  
 08E: 25 August 1962 [Trottiscliffe, Kent. PTSLENHS1962:99-100]  
 09A: 1 September 1984 [Arundel Park, Sussex. PTBENHS18:20]  
 09D: 16 September 1917 [Boxhill, Surrey. Males and females. LondonHets] 16 September 1917 [Boxhill, Surrey. LondonHets]  
 10A: 2 October 1949 [Happy Valley, Boxhill, Surrey. LondonHets]  
 10D: 16 October 1867 [G. Woot. (Granville Wootton). EMM69:234-245]  
 11E: 25 November 1922 [Otford, Kent. LondonHets]

**Detailed records**

*Acalypta brunnea* (Germar) (Tingidae)

- Brushed from moss on an oak trunk [Horner Wood, Exmoor, North Somerset. 31 July 1994. BJENH10:177-178]  
 On a mossy stump [New Forest, Hampshire. 15 September 1984. PTBENHS18:20]  
 In moss [Armagh. 1893. IrelandHets]  
 In moss [Armagh & Kildress, Tyrone. EMM29:35-37]  
 Amongst moss on oak trees [Birmingham district. First four months of 1883. Adult and nymph. EMM20:19]  
 In moss [Killarney, North Kerry. IrelandHets]  
 In moss [Leenane, West Galway. April 1897. IrelandHets]  
 In moss [Near Forres, Morayshire. 1877. EMM14:165-167]  
 In moss [Westport district, West Mayo. 1912. IrelandHets]

*Acalypta carinata* (Panzer) (Tingidae)

- In moss [Oaken Grove, Buckinghamshire (near Henley-on-Thames). 18 May 1952. EMM89:2]  
 Suction sampling moss under trees on a north-facing, steep slope in a wood [Homefield Wood, Buckinghamshire. 31 May 2012. Adults and nymphs. Hem1:34]  
 Suction sampling moss [The Chase, Broad Layings, VC12. 15 June 2015. Hem3:54]  
 Suction sampling moss along the edge of a ride [Savernake Forest, North Wiltshire. 20 June 2012. BJENH27:220]  
 Suction sampling chalk grassland [Sovell Down, Dorset. 19 June 2002. HN2:7]  
 Suction sampling [Great Pen Wood, VC12. 25 June 2015. Hem3:54]  
 Shaking and suction sampling moss from a woodland edge [Cowhouse Bank, North York Moors. 9 July 2019. Adults. Hem6:254]  
 In moss beside a ride [Wychwood Forest NNR, Oxfordshire. 4 August 1965. EMM104:22]  
 In moss and *Luzula* in chalk-pit [Harefield, Middlesex. 12 September 1934. Ent71:148-153]  
 In moss, especially *Mnium* species [Blacklands/Ring Haw, near Peterborough. EG20:125-135]  
 In moss, on a bank under bushes [Coombe Hurst, Croydon. May. D&S1865]

- In the gizzard of a Great Tit (*Parus major newtoni*) [Forest of Dean, Gloucestershire. 1948-1951. Adult. EMM92:68-71]
- In a sand-pit [Guestling, near Hastings. EMM18:140]
- In moss [Hollington Wood, near Hastings. February/March 1881. Adult and nymphs. EMM17:260]
- In moss on mountains [Leenane, West Galway. April 1897. IrelandHets]
- In moss [New Forest. June. PSLENHS1908-09:65]
- In moss on the woodland floor [Oxfordshire, Berkshire and Buckinghamshire. Hem1:16]

*Acalypta nigrina* (Fallén) (Tingidae)

- Suction sampling moss beneath heather/heath on open moorland [Lund Ridge, North York Moors. 9 July 2019. Adult. Hem6:254]
- Suction sampling moss [Botany Bay, Bilsdale East Moor, North York Moors. 13 September 2019. Nymphs. Hem6:265]
- Suction sampling moss [Hartoft Moor, North York Moors. 14 September 2019. Nymphs reared in culture. Hem6:265]
- Suction sampling moss [Lund Ridge, North York Moors. 13 September 2019. Nymphs reared in culture. Hem6:265]
- Sifting moss [Aviemore. 1938. Macropters. EMM85:152-156]
- In moss [Aviemore, Inverness-shire. August 1938. Including macropters. EMM75:132]
- Under a stone in *Rhacomitrium-Empetrum* heath at about 1500 feet [Ben Loyal, Sutherland. July/August 1972. EMM109:223-225]
- In moss (*Rhacomitrium*) near boulders set in the peat, altitude 1000 feet [Black Corrie, Isle of Rhum. Last week of June. Dark form. EMM99:161-162]
- In moss [Cheviot, Northumberland. August. EMM11:173-174]
- In moss in wooded areas [Eastern Highlands. EMM107:255-256]
- In *Rhacomitrium* growing over boulders set in peat [Entrance to Corrie Dubh, Isle of Rhum. 1963. Specimens unusually dark in colour. TSBE18:91-167]
- In litter on a rock beneath a procumbent juniper (*Juniperus*) at about 2600 feet [Hills above Glen Derry, Cairngorms Reserve. August 1971. EMM107:255-256]
- In a pitfall trap set in *Nardus* grassland [Meall a'Chrasgaidh, Fannich Hills SSSI, West Ross. June/July 1982. EMM120:144]
- In moss amongst heather on a moor [Near Aviemore, Inverness-shire. 1935. EMM75:132]
- In an open sunny situation just within a pine wood [Near Aviemore, Inverness-shire. August 1938. EMM75:132]
- In moss [Nethy Bridge, Scotland. Autumn 1919. EMM56:45]
- In moss [Sanquhar Wood, near Forres, Morayshire. 1876. EMM14:186-187]
- In moss among pine woods [Scotland. EMM109:223-225]

*Acalypta parvula* (Fallén) (Tingidae)

- Suction sampling chalk grassland [Great Hill, Dorset. 7 January 2003. HN2:7]
- In the nest of a short-tailed vole (*Microtus agrestis/hirtus*) [Corris Forest, Merioneth. 23 February 1932. EMM70:96-101]
- Shaken from moss at the edge of a quarry top [Enstone Quarry, Oxfordshire. 24 March 2012. EMM149:136-137]
- Suction-sampling moss at the edge of a quarry top [Enstone Quarry, Oxfordshire. 24 March 2012. EMM149:136-137]
- Under stones in a chalk-pit [Houghton Regis, Bedfordshire. 17 May 1944. EMM81:183-185]
- Suction sampling chalk grassland [Muckleford, Dorset. 22 May 2002. HN2:7]
- Suction sampling moss [Helmdon, VC32. 6 June 2014. Nymphs. Hem2:27]
- Shaking and suction sampling moss from a woodland edge [Cowhouse Bank, North York Moors. 9 July 2019. Adults. Hem6:254]
- Suction sampling moss beneath heather/heath on open moorland [Lund Ridge, North York Moors. 9 July 2019. Nymphs reared in culture. Hem6:254]

- Sieving *Pseudoscleropodium purum* [Swyncombe Downs, Oxfordshire Chilterns. 14 July 2016. Nymphs. BJENH30:107-108]
- Suction sampling moss [Helmdon, VC32. 16 July 2014. Adults. Hem2:27]
- Suction sampling stonecrop (*Sedum*) on the wide verge of a road corner [SU461606, VC12. 17 July 2015. Hem3:54]
- Suction sampling chalk grassland [Stonehill Down, Dorset. 24 July 2002. HN2:7]
- Suction sampling chalk grassland [Bincombe Hill, Dorset. 1 August 2002. HN2:7]
- In a towed suction sampler (DragVac) [Above Crowcombe, Quantock Hills, VC5. 8 August 2019. Adults. Hem6:263]
- Sieving moss [Above Crowcombe, Quantock Hills, VC5. 8 August 2019. Adults. Hem6:263]
- Suction sampling a roadside mossy bank under tree cover [Above Crowcombe, Quantock Hills, VC5. 8 August 2019. Adults and nymphs. Hem6:263]
- Suction sampling chalk grassland [Hog Cliff, Dorset. 13 August 2002. HN2:7]
- On patches of short moss growing on a cindery-clay substrate. In culture, eggs were inserted into a moss stems and one through a frond [Aldenham, Hertfordshire. 17 August 1952. EMM89:132-134]
- In a towed suction sampler (DragVac) on ericaceous heath [Witley Common, Surrey. 19 August 2012. Hem6:244]
- From moss on a culvert [Blackwater, North Essex. 25 August 1984. HSGN4:4]
- Amongst dry, acid grassland [South Penquite Farm, Cornwall. 23 August 2005. CornwallHets]
- By turning over stones up to two inches in diameter [Lakenheath Warren, Suffolk. 27 August 1900. EMM36:288-289]
- In moss on a stump [Oxshott Heath, Surrey. 28 August 1904. LondonHets]
- Suction sampling moss beneath heather/heath [Witley Common, Surrey. 27 August 2010. Hem6:244]
- Suction sampling moss beneath heather/heath [Witley Common, Surrey. 31 August 2010. Hem6:244]
- Suction sampling chalk grassland (south facing) [Fishers Bottom, Dorset. 2 September 2002. HN2:7]
- Meadow [Moor House Nature Reserve, Westmorland. 1 September. TSBE19:173-235]
- Grubbing in a chalk pit [Swanscombe, Kent. 4 September 1964. LondonHets]
- Suction sampling moss [Botany Bay, Bilsdale East Moor, North York Moors. 13 September 2019. Adults. Hem6:265]
- Suction sampling chalk grassland (north facing) [Fishers Bottom, Dorset. 12 September 2002. HN2:7]
- Suction sampling moss [Hartoft Moor, North York Moors. 14 September 2019. Adults. Hem6:265]
- Suction sampling moss [Lund Ridge, North York Moors. 13 September 2019. Adults. Hem6:265]
- Suction sampling chalk grassland [Haydon Down, Dorset. 25 September 2002. HN2:7]
- Beating vegetation clumps on a sea cliff [Porthallow, West Cornwall. 23 September 1993. BJENH13:106-107]
- Sieving the moss *Rhytidiadelphus triquetrus* growing around the base of small scrub hawthorns on a north-facing slope. In culture, the bugs laid eggs in the stems and leaves of the moss, primarily the latter. Most eggs were laid in the leaves of fescue grass that were also in the incubation. Eggs were also laid in the stems of garden grass added to the culture. Feeding on fescue and garden grass was seen [Aston Rowant NNR, Oxfordshire Chilterns. 27 September 2013. Adults. BJENH30:29-30]
- Suction sampling chalk grassland [Giant Hill, Dorset. 1 October 2002. HN2:7]
- Sieving the moss *Pseudoscleropodium purum* growing in the turf of a north-facing slope. In culture, the bugs laid eggs in the leaves of the moss. Most eggs were laid in the leaves of fescue grass that were also in the incubation. Eggs were also laid in the stems of garden grass added to the culture. Feeding on fescue and garden grass was seen [Swyncombe Downs, Oxfordshire Chilterns. 6 October 2013. Adults. BJENH30:29-30]
- On a concrete wall [River Thames, Belvedere, Kent. 12 October 1984. ERJV101:47-49]
- On a pathway under *Achillea* with short, dry moss [Erith Marshes, Kent. 16 October 1959. LondonHets]

- Suction sampling chalk grassland [North Hill, Dorset. 11 November 2002. HN2:7]  
 Suction sampling chalk grassland [Site 1, Bayards Hill, Dorset. 25 November 2002. HN2:7]  
 Suction sampling chalk grassland [Site 2, Bayards Hill, Dorset. 25 November 2002. HN2:7]  
 In moss [Alverstone, Isle of Wight. EMM60:117-118]  
 In moss [Armagh & Newton Hamilton, Armagh. EMM29:35-37]  
 In moss [Ashley Down, Isle of Wight. EMM60:117-118]  
 Among moss [Bossington and Wootton Common. August 1929. EMM66:43-44]  
 Under moss on rocks [Bray district, Wicklow. August 1933. IrelandHets]  
 From dry sites in a towed suction-sampler (DragVac) [Chilterns/North Wessex Downs/Cotswolds. BJENH26:217-218]  
 Under dry marine rejectamenta [Devon. Butler1923]  
 On a post-industrial site [Doncaster, VC63. August 2015. HN23:5]  
 In moss [Dover and its vicinity, Kent. EMM26:81-82]  
 In moss and sweeping rough herbage [Dumfriesshire. 1934. EMM71:164]  
 In moss [Dumfriesshire. EMM73:234-235]  
 Sweeping [Easton, Cumberland. ERJV51:160-161]  
 In the gizzard of a Blue Tit (*Parus caeruleus obscurus*) [Forest of Dean, Gloucestershire. 1948-1951. Adult. EMM92:68-71]  
 On the underside of pieces of driftwood lying on a dense sward of thrift (*Armeria maritima*) near the littoral limit of terrestrial vegetation [Isles of Scilly. August/September 1967. EMM104:95]  
 Ballast pit [Killarney, North Kerry. July 1927. IrelandHets]  
 In moss on consolidated dunes [Kilmory, Isle of Rhum. 1962. TSBE18:91-167]  
 Under stones [Lakenheath Warren, Suffolk. SuffolkHets]  
 In moss and at roots of grass [Middlesex. Ent71:148-153]  
 In moss on trees [Near Forres, Morayshire. 1877. EMM14:165-167]  
 In moss in a cranny in rocks [Near Lake Maelog, Anglesey. September 1923. Brachypter. EMM60:37-39]  
 In moss in the sandhills [Near Lake Maelog, Anglesey. September 1923. Brachypters. EMM60:37-39]  
 In moss [Newtown Hamilton, Armagh. 1893. IrelandHets]  
 From grass on naturally vegetated derelict land [North-west England. 1987/1988. EG43:221-226]  
 Suction sampling in open places where moss grows, on downs, commons and heaths, and in quarries and derelict areas. Also in woods where moss grows along the edges of wide, well-lit rides. The nymphs of the bug have been collected in large numbers in June and July, with smaller numbers in August. The new adults first appear in July, and reach their peak numbers in August and September. In early spring, no nymphs have been found, and only small numbers of adults have been collected, in contrast with the large numbers at the end of the previous summer. These observations suggest that the insect has a single generation each year and overwinters principally as the egg. The species of moss encountered most commonly with the bug are *Pseudoscleropodium purum*, *Rhytidiadelphus squarrosus* and *Rhytidiadelphus triquetrus* on the sand or chalk of downs, commons and quarries; and *Syntrichia ruralis* and *Homalothecium sericeum* in derelict areas, growing on concrete and other hard-standing. Where these plants are sampled as pure stands, each has yielded both adults and nymphs of the bug, and the bugs have been kept alive in captivity on these species of moss. All five of these mosses can therefore be regarded as hosts for the bug. The bug cannot thrive on any species of moss. Attempts to rear it on the common woodland acrocarp mosses *Polytrichastrum formosum* and *Mnium hornum* failed to keep the bugs alive for more than a week or two. Captured nymphs reared through to adult resulted in 4.4% (13 of 298) macropters, the remainder brachypters. The percentage of macropters taken suction sampling is much less than this, which is to be expected given that they are capable of flying from the moss. The brachypters are found in roughly equal numbers of males and females, either by suction sampling or when reared. Macropters also appear to occur with approximately equal numbers of both sexes. Pooling the specimens taken by sweeping, suction sampling and rearing gives 20 females and 19 males [Oxfordshire, Berkshire and Buckinghamshire. Adults and nymphs. Hem1:16]  
 In moss on sandhills [Pendine, Carmarthenshire. EMM48:108-111]

Sweeping in a lane [Prior Rigg, Cumberland. 1915. EMM52:66]  
 In sandpit [Redstone Hill, Reigate. LondonHets]  
 In moss on the ground, on walls and tree-stumps [South of England. Spring, autumn and winter. D&S1865]  
 In pitfall trap set in grass heath [Stanford Training Area, VC28. 2017. BJENH31:231-237]  
 In moss [Suffolk. SuffolkHets]  
 In moss [Tuddenham, Suffolk. SuffolkHets]  
 Waste plot [Upton Court Road, Slough, Buckinghamshire. 1953-1954. LondonHets]

*Acalypta platycheila* (Fieber) (Tingidae)

Suction-sampling grassland [Isles Quarry, VC16. 15 May 2014. HN22:6]  
 Sweeping [Near Pulborough, Sussex. 10 July 1932. Macropter. EMM70:68]  
 Found resting on main road [Isle of Grain, Kent. PTSLENHS1962:123-183]

*Agramma laetum* (Fallén) (Tingidae)

Suction sampling chalk grassland [Great Hill, Dorset. 7 January 2003. HN2:7]  
 Suction sampling chalk grassland [Portesham Quarry, Dorset. 17 April 2003. HN2:7]  
 Suction sampling chalk grassland [Muckleford, Dorset. 19 May 2002. HN2:7]  
 Sweeping [Sand Pit area, Shotover Hill, Oxfordshire. 18 May 2010. EMM149:271-272]  
 Sweeping and suction-sampling. Specimens incubated with Field Woodrush (*Luzula campestris*) and Sweet Vernal grass (*Anthoxanthum odoratus*), taken from the site. Feeding occurred on both plants, but egg-laying was restricted to the former. Eggs were inserted within the tissue of the leaf, from both sides, and in the stem. Glaucous Sedge (*Carex flacca*), Common Yellow Sedge (*Carex demissa*) and garden grass were added to the culture. Feeding and egg-laying occurred on all three, but Woodrush remained the preferred host for egg-laying [Sand Pit area, Shotover Hill, Oxfordshire. 19 May 2013. EMM149:271-272]  
 Suction sampling chalk grassland [Muckleford, Dorset. 22 May 2002. HN2:7]  
 Suction sampling chalk grassland [Haydon Hill, Dorset. 15 June 2002. HN2:7]  
 On sedges [Mount Caburn NNR, near Glynde, East Sussex. 19 June 1993. BJENH8:88-90]  
 Saltmarsh [Plumpton Marsh, Ulverston, Westmorland. 19 June 1991. BJENH5:77]  
 Suction sampling chalk grassland [Sovell Down, Dorset. 19 June 2002. HN2:7]  
 Suction sampling chalk grassland [Maiden Castle, Dorset. 4 July 2000. HN2:7]  
 Suction sampling chalk grassland [Stonehill Down, Dorset. 24 July 2002. HN2:7]  
 In an old limestone quarry [Stenders Quarry, Forest of Dean, West Gloucestershire. 5 August 2003. BJENH19:34-37]  
 Suction sampling chalk grassland [Hog Cliff, Dorset. 13 August 2002. HN2:7]  
 Sweeping sedges [Nagden salt marshes, Faversham, Kent. 26 August 1981. PTBENHS17:18-19]  
 Suction sampling moss [Coombe Hill, Wendover, VC24. 3 September 2010. Hem2:25]  
 Suction sampling chalk grassland (south facing) [Fishers Bottom, Dorset. 2 September 2002. HN2:7]  
 Suction sampling chalk grassland (north facing) [Fishers Bottom, Dorset. 12 September 2002. HN2:7]  
 Among dry litter on a low bank fringing a salt marsh [Poole Harbour, Dorset. 12-14 September 1955. EMM91:282-283]  
 Sweeping grass near a pond [Poor's Field, Ruislip Common, Middlesex. 14 September 1963. LondonHets]  
 Suction sampling chalk grassland [Haydon Down, Dorset. 25 September 2002. HN2:7]  
 Suction sampling chalk grassland [Giant Hill, Dorset. 1 October 2002. HN2:7]  
 Suction sampling chalk grassland [Bindon Hill, Dorset. 7 October 2002. HN2:7]  
 Suction sampling chalk grassland [North Hill, Dorset. 11 November 2002. HN2:7]  
 Among stones on a chalky bank on downs [Ballard Down, Swanage, Dorset. 13-27 August 1955. EMM91:282-283]  
 Sweeping grass [Box Hill, Surrey. May. D&S1865]  
 Sweeping in grassy places or searching amongst moss and other low plants in sandy places [British Isles. Butler1923]

On mudflats below a seawall [Brownsea Island, Poole Harbour, Dorset. 2006/2007. EG60:37-71]  
 From dry sites in a towed suction-sampler (DragVac) [Chilterns/North Wessex Downs/Cotswolds. BJENH26:217-218]  
 Sweeping [Deal, Kent. EMM26:81-82]  
 Sweeping in dune slacks [Eskmeals Dunes Nature Reserve, Cumbria. 1984. ERJV97:8]  
 On heath [Fairlight. Saunders1892]  
 In a damp path in a wood [Hertfordshire. Butler1923]  
 Sweeping [Kessingland, Suffolk. SuffolkHets]  
 Sweeping the plants of salt marsh [Lymington and Poole Harbour. Butler1923]  
 Among stones on a chalky bank on downs [Near Winchester, Hampshire. EMM91:282-283]  
 From grass on naturally vegetated derelict land [North-west England. 1987/1988. EG43:221-226]  
 Sweeping grass [Reigate, Chobham, Woking, Herne Bay. June to September. Saunders1892]  
 Sweeping [Reigate, Surrey. August 1899. PSLENHS1899:97]  
 In pitfall trap set in grass heath [Stanford Training Area, VC28. 2017. BJENH31:231-237]

*Campylosteira verna* (Fallén) (Tingidae)

Suction sampling chalk grassland [Great Hill, Dorset. 7 January 2003. HN2:7]  
 In moss [Wytham Wood, Berkshire. 28 February 1956. Male. EMM93:49-51]  
 Amongst limestone scree [Crickley Hill, Gloucestershire. 24 May 1986. PTBENHS20:67]  
 Suction sampling chalk grassland [Haydon Hill, Dorset. 15 June 2002. HN2:7]  
 Suction sampling chalk grassland [Sovell Down, Dorset. 19 June 2002. HN2:7]  
 Suction sampling chalk grassland [Maiden Castle, Dorset. 4 July 2002. HN2:7]  
 Sieving *Pseudoscleropodium purum* [Swyncombe Downs, Oxfordshire Chilterns. 14 July 2016. Adults and nymph. BJENH30:107-108]  
 Suction sampling chalk grassland [Stonehill Down, Dorset. 24 July 2002. HN2:7]  
 On undersides of rocks resting on soil in arable fields [West Pentire Farm, Crantock, Cornwall. 31 August 2006. CornwallHets]  
 Suction sampling chalk grassland (south facing) [Fishers Bottom, Dorset. 2 September 2002. HN2:7]  
 On a slope with very short moss [Darenth Chalk Pit, Kent. 10 September 1960. LondonHets]  
 Suction sampling chalk grassland [Haydon Down, Dorset. 25 September 2002. HN2:7]  
 Suction sampling chalk grassland [Giant Hill, Dorset. 1 October 2002. HN2:7]  
 Suction sampling chalk grassland [Bindon Hill, Dorset. 7 October 2002. HN2:7]  
 Under stones on almost bare chalk [Darenth Chalk Pit, Kent. 9 October 1963. LondonHets]  
 In moss on chalk wolds [Kiplingcotes, Yorkshire. 29 October 1972. EMM112:238]  
 Suction sampling chalk grassland [North Hill, Dorset. 11 November 2002. HN2:7]  
 At roots of thyme [Porthleven, Cornwall. 28 December 1985. CornwallHets]  
 Among pleurocarp mosses growing around the bases of scrub hawthorn [Aston Rowant NNR, Oxfordshire Chilterns. BJENH30:107-108]  
 In moss [British Isles. Spring and August. Butler1923]  
 From *Pseudoscleropodium purum* growing in the shade of trees on the floor of a lowland quarry [Dry Sandford Pit, Berkshire. BJENH30:107-108]  
 In leaf mould [Epping Forest, Essex. June 1950. EMM89:303]  
 In moss [Headley Lane, Surrey. April 1906. LondonHets]  
 Sandhills [Near Burnham. EMM69:234-245]  
 In sandpit [Redstone Hill, Reigate, Surrey. LondonHets]  
 In moss on a sunny slope [Sanderstead, Surrey. March. D&S1865]  
 Suction-sampling and sieving *Pseudoscleropodium purum* on a north-facing slope. In culture, incubation with moss alone led to death in 4-5 days. Incubations including other plants of the turf were more successful, with feeding seen on grass and other plants [Swyncombe Downs, Oxfordshire Chilterns. BJENH30:107-108]  
 In pitfall traps set in the turf of a north-facing slope [Swyncombe Downs, Oxfordshire Chilterns. BJENH30:107-108]  
 In a chalk quarry [Wharram Quarry, Yorkshire. December 1974. EMM112:238]

*Catoplatus fabricii* (Stål) (Tingidae)

- Suction sampling chalk grassland [Great Hill, Dorset. 7 January 2003. HN2:7]  
 Suction sampling moss [Enstone Quarry, Enstone, Oxfordshire. 15 April 2011. Adults. Hem1:32]  
 Suction sampling (DragVac) [Enstone Quarry, Enstone, Oxfordshire. 5 May 2013. Adult. Hem1:32]  
 Suction sampling moss [Enstone Quarry, Enstone, Oxfordshire. 17 May 2012. Adult. Hem1:32]  
 Sweeping [Enstone Quarry, Enstone, Oxfordshire. 17 May 2012. Adults. Hem1:32]  
 Sweeping [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. 25 May 2010. Adult. Hem1:32]  
 Sweeping [Enstone Quarry, Enstone, Oxfordshire. 23 May 2010. Adults. Hem1:32]  
 Sweeping [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. 5 June 2008. Adults. Hem1:32]  
 Sweeping [Minchinhampton Common, Gloucestershire. 3 June 1986. PTBENHS20:67]  
 Sweeping [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. 9 June 2008. Adults. Hem1:32]  
 Sweeping [Enstone Quarry, Enstone, Oxfordshire. 9 June 2012. Adults. Hem1:32]  
 Sweeping [Sleepy Field, Warren Farm, near Ewell, Surrey. 6 June 2015. BJENH29:28]  
 Sweeping [Dry Sandford Pit, Dry Sandford, VC22. 13 June 2012. Adult. Hem1:32]  
 Sweeping [Bradwell Grove Airfield, Carterton, Oxfordshire. 17 June 2012. Adults. Hem1:32]  
 On ox-eye daisy on grassy heathland [Colney Heath, VC20. 25 June 2018. Hem6:220]  
 Sweeping [Greenham Common, Newbury, Berkshire. 21 June 2010. Adults. Hem1:32]  
 Sweeping [Greenham Common, Newbury, Berkshire. 22 June 2010. Adult. Hem1:32]  
 Sweeping a patch of Ox-eye Daisy (*Chrysanthemum leucanthemum*) growing on moss-covered cinders [Whitley Common, Surrey. 21 June 1958. Adults. Ent92:6-13]  
 On neutral grassland [Ashchurch, near Tewkesbury, Gloucestershire. 29 June 1986. PTBENHS20:67]  
 Suction sampling (DragVac) [Enstone Quarry, Enstone, Oxfordshire. 29 June 2013. Adult and nymphs. Hem1:32]  
 Sweeping [Lewes Downs, East Sussex. 26 June 1976. PTBENHS17:18-19]  
 Suction sampling moss [Bradwell Grove Airfield, Carterton, Oxfordshire. 1 July 2013. Nymph. Hem1:32]  
 Sweeping flower-rich vegetation in a quarry [Lindrick Quarry, Rotherham, VC63. 4 July 2010. Adult. HN16:13]  
 Sweeping [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. 12 July 2008. Adults. Hem1:32]  
 Sweeping [Enstone Quarry, Enstone, Oxfordshire. 11 July 2011. Adults. Hem1:32]  
 Suction sampling moss [Helmdon, VC32. 16 July 2014. Nymph. Hem2:27]  
 Suction sampling (DragVac) [Enstone Quarry, Enstone, Oxfordshire. 25 July 2012. Nymph. Hem1:32]  
 Sweeping [Enstone Quarry, Enstone, Oxfordshire. 27 July 2009. Adult. Hem1:32]  
 Suction sampling moss [Thrupp Lake, Radley, VC22. 28 July 2013. Adults. Hem1:32]  
 Suction sampling moss [Thrupp Lake, Radley, VC22. 1 August 2013. Adult and nymph. Hem1:32]  
 Sweeping [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. 6 August 2008. Adult. Hem1:32]  
 Suction sampling (DragVac) [Bald Hill, Aston Rowant NNR, Oxfordshire Chilterns. 13 August 2012. Adults and nymphs. Hem1:32]  
 Suction sampling (DragVac) [Bradwell Grove Airfield, Carterton, Oxfordshire. 9 September 2012. Adults and nymph. Hem1:32]  
 Suction sampling moss [Bradwell Grove Airfield, Carterton, Oxfordshire. 9 September 2012. Nymph. Hem1:32]  
 Suction sampling (DragVac) [Dry Sandford Pit, Dry Sandford, VC22. 12 September 2012. Adult. Hem1:32]  
 In moss [Uxbridge/Harefield, Middlesex. 18 September 1935. Ent71:148-153]  
 In moss [Uxbridge/Harefield, Middlesex. 29 September 1933. Ent71:148-153]  
 In moss [Uxbridge/Harefield, Middlesex. 6 October 1934. Ent71:148-153]  
 At the roots of *Chrysanthemum leucanthemum* [Bald Hill, Oxfordshire Chilterns. October 1959. EMM95:280]  
 On a railway bank [Bushey, Hertfordshire. May. D&S1865]  
 Sweeping aquatic plants [Cambridge and neighbourhood. EMM44:275]

From dry sites in a towed suction-sampler (DragVac) [Chilterns/North Wessex Downs/Cotswolds. BJENH26:217-218]

From a quarry [Niblum Quarry, Rotherham, VC63. 1990. HN16:13]

Amongst moss in chalk grassland [Noar Hill, Selborne, North Hampshire. 16 June 1995. Dead specimen. EMM133:175-176]

From open areas on chalk, limestone, sand or gravel with Oxeye Daisy (*Leucanthemum vulgare*). Several attempts at keeping adults and nymphs alive on the moss from which they came all failed, the cultures lasting no more than a week with no feeding being observed. In contrast, parallel cultures on Oxeye Daisy were much more successful, with feeding taking place. This suggests that moss, by itself, is not a pabulum for the insect [Oxfordshire and Berkshire. Adults and nymphs. Hem1:32]

Sweeping [Ranmore Common, Surrey. June 1914. LondonHets]

Under Oxeye daisy (*Leucanthemum vulgare*) [Yateley Common and Blackbushe Airfield, VC12. May-June 2001. HN3:5]

*Corythucha ciliata* (Say) (Tingidae)

From plane trees in a hedge outside a commercial plant nursery [East of Bedford, Bedfordshire. 6/10 October 2006. BJENH20:233-240]

*Derephysia foliacea* (Fallén) (Tingidae)

Beating ivy-covered rock face [Nare Head, Cornwall. 14 July 2004. CornwallHets]

Off ivy [Blackheath, Kent. 20 July 1960. Males. LondonHets]

Sweeping [Blackheath, Kent. 20 July 1964. LondonHets]

Under *Chenopodium* in a salt marsh [Southwold. 16 July 1912. Butler1923]

From ivy-covered rocks [Black Head and north of Pedn-myin, Cornwall. 27 July 2006. CornwallHets]

Sweeping [Ranmore Common, Surrey. 30 July 1911. LondonHets]

On ivy [St John's Wood, London, Middlesex. 31 July 1960. LondonHets]

From ivy-covered rocks [Black Head and north of Pedn-myin, Cornwall. 2 August 2005. CornwallHets]

Swept from grasses at the top of an isolated chalk ridge, altitude 500 feet [Sharpenhoe Clappers, Bedfordshire. 4 August 1960. EMM97:32-33]

Flying and settling on hawthorn leaf [Blackheath, Kent. 7 August 1958. Adult. LondonHets]

Beating Ivy (*Hedera helix*) on oak trunks [Haynes, Bedfordshire. 8 August 1960. EMM97:32-33]

Beating ivy [Blackheath, Kent. 13 August 1900. LondonHets]

From ivy [Blackheath, Kent. 16 August 1964. LondonHets]

Ivy [Porthgwarra, Cornwall. 20 August 2006. CornwallHets]

Beating Ivy (*Hedera helix*) on oak trunks [Stotfold, Bedfordshire. 17 August 1960. EMM97:32-33]

On housewall [Blackheath, Kent. 26 August 1963. LondonHets]

Sweeping in woodland [Inchcailloch, Stirlingshire. 31 August 1966. EMM114:21-24]

At roots of grass [West Hyde, Hertfordshire. 7 September 1935. Adults. LondonHets]

On housewall [Blackheath, Kent. 14 September 1962. LondonHets]

Under a stone on a shingle beach [Near Abbotsbury, Dorset. 12-14 September 1955. EMM91:282-283]

In moss [West Hyde, Hertfordshire. 14 September 1934. Nymph. LondonHets]

Beating ash [Near Norwich. 18 September 1879. EMM16:114]

On *Hedera helix* [Imperial College Biological Field Station, Slough, Buckinghamshire. 9 October 1935. JSBE1:165-166]

On a concrete wall [River Thames, Belvedere, Kent. 12 October 1984. ERJV101:47-49]

In ivy [Barmouth, Merioneth. August/September 1927. EMM64:62-64]

In a dead rabbit [Bentley Woods, Suffolk. August 1897. SuffolkHets]

Beating ivy on garden wall [Blackheath, Kent. Autumn, winter and spring. LondonHets]

In ivy [Carshalton, Surrey. LondonHets]

Roadside verge [Castor, near Peterborough. EG20:125-135]

From ash saplings [Dumfriesshire. August. EMM70:162]  
 On ivy [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. August 1955. LondonHets]  
 In a salt marsh [Herne Bay. Butler1923]  
 On ox-eye daisy [Kegworth, East Midlands. July 1932. EMM68:213-214]  
 Ten feet up a cherry tree in a garden [Lewisham, London. 1882. EMM19:117-119]  
 In ivy growing on palings [Mickleham. August. D&S1865]  
 Beating Ivy in a garden [Newton Abbot, South Devon. August 1937. EMM74:20-21]  
 Ivy [Porthgwarra, Cornwall. August 1997. CornwallHets]  
 Sweeping in a lane [Prior Rigg, Cumberland. 1915. EMM52:66]  
 In moss [Reigate district. LondonHets]  
 In a suction trap [Rothamsted Experimental Station, Harpendon. Male. TRESL112:173-220]  
 Amongst ivy growing on low stone walls [Snowdonia. Butler1923]

*Dictyla convergens* (Herrich-Schaeffer) (Tingidae)

Under stone in derelict drystone wall by small stream [Turkdean Valley, Gloucestershire. 13 May 1989. GloucsHets]  
 Sweeping Water Forget-me-not (*Myosotis scorpioides*) in a recovering water meadow. In culture, eggs were laid in the tissue of the stems, leaves and flower heads of this plant. The emergence of nymphs was observed [New Marston Meadows, Oxford. 21 May 2015. Adults. Hem4:98]  
 On *Myosotis scorpioides* [Ditton Park, Datchet, Buckinghamshire. 31 May 1953. LondonHets]  
 From a brownfield site [Crayford Stadium Rough, West Kent. 19 June 2006. BJENH20:193-194]  
 Sweeping [Marston Vale, Bedfordshire. 31 July 2015. BJENH29:69-88]  
 In moist meadow [Hummocky Field, Totternhoe, Bedfordshire. 1 August 1948. Nymphs. EMM86:6-8]  
 In a drain [Ballyteige sandhills, Ireland. IrelandHets]  
 In ditches [Cheshunt. 1907. EMM44:61-63]  
 Damp places in tufts of grass [Lee. April. D&S1865]  
 In a damp spot [Near Battle, East Sussex. August 1881. EMM18:113]  
 Sweeping *Myosotis* [New Forest. July 1904. ERJV17:67]  
 Associated with *Myosotis* growing on the banks of a river [River Darent, Brasted, Kent. LondonHets]  
 Sweeping by the riverside [Wroxham, East Norfolk. August 1926. Adult and nymphs. EMM63:12-13]

*Dictyonota fuliginosa* A. Costa (Tingidae)

On broom bushes [Weybridge. 29 June 1872. Nymphs. EMM9:119]  
 On *Sarothamnus scoparius* [Silwood Park, Sunninghill, Berkshire. 3 July 1956. Nymphs. EMM97:32-33]  
 On *Sarothamnus scoparius* [Virginia Water, Surrey. 7 July 1956. LondonHets]  
 Beating broom on a rough hillside [Charlton, London, SE7. 11 July 1993. Male and females. ERJV105:279]  
 Beating the lowest branches of broom [Wildmoor Heath, Crowthorne, Berkshire. 13 July 2009. Hem1:36]  
 Beating old broom bushes (*Cytisus scoparius*) [Burnham Beeches, Buckinghamshire. 19 July 1954. EMM90:237]  
 From old broom bushes [Chobham Common, Surrey. 19 July 1968. Adults. EMM106:164]  
 On *Sarothamnus scoparius* [Silwood Park, Sunninghill, Berkshire. 17 July 1956. EMM97:32-33]  
 Beating the above-waist-height branches of broom [Wildmoor Heath, Crowthorne, Berkshire. 17 July 2006. Hem1:36]  
 On old broom bushes. Males in copula with female *D. strichnocera* [Chobham, Surrey. 26 July 1934. Adult males and females. EMM71:113-114]  
 On *Cytisus* [Hillingdon, Middlesex. 8 August 1936. Ent71:148-153]  
 On broom [Wickham Lane, Plumstead, Kent. 15 August 1896. LondonHets]  
 On old broom bushes [Dungeness, Kent. 1984. PTBENHS18:20]

In culture preyed upon by the mite *Anystis agilis* [Imperial College Field Station, Silwood Park, Ascot, Berkshire. EMM103:58-59]  
 On old furze bushes [Near Brandon waterworks, Suffolk. August 1911-13. SuffolkHetsAnn]  
 From broom [Oxshott, Surrey. September 1903. PSLENHS1903:59-60]  
 On broom [Plumstead. PSLENHS1897:141]  
 On old broom bushes [Silwood Park, Sunninghill, Berkshire. 1955-1960. EMM97:32-33]  
 On broom (*Sarothamnus*) [Virginia Water, Surrey. July 1956. EMM92:341]  
 Sweeping [Weybridge. August 1867. EMM4:238-246]  
 On old broom bushes [Weybridge. Saunders1892]

*Dictyonota strichnocera* Fieber (Tingidae)

Gorse heath [Cadsonbury Down, Cornwall. 22 June 1989. Nymph. CornwallHets]  
 Sweeping heather near gorse on grassy heathland [Colney Heath, VC20. 25 June 2018. Hem6:220]  
 On gorse [Dowdeswell Wood, Gloucestershire. 8 July 1995. GloucsHets]  
 On gorse [Oxshott Heath and Esher Common, Surrey. 12 July 1952. PTSLENHS1952-53:83-84]  
 From gorse [Ashted, Surrey. 20 July 1946. PTSLENHS1946-47:73-74]  
 From old broom bushes [Chobham Common, Surrey. 19 July 1968. Adult. EMM106:164]  
 On broom at a roadside [Clophill, Bedfordshire. 17 July 1948. EMM86:6-8]  
 Broom in plantation [Croft Pascoe, Cornwall. 21 July 2006. CornwallHets]  
 On old broom bushes. Females in copula with male *D. fuliginosa* [Chobham, Surrey. 26 July 1934. Adults. EMM71:113-114]  
 Sweeping [Reigate, Surrey. 9 August 1899. LondonHets]  
 On an old gorse bush in a gravel pit [Blackheath, Kent. 25 August 1962. LondonHets]  
 Sweeping [S. Heighton Downs. 24 August 1981. PTBENHS17:18-19]  
 On furze [Oxshott Heath, Surrey. 28 August 1904. LondonHets]  
 On broom [Shirley Common, Surrey. 28 August 1897. LondonHets]  
 On ground flora [Whipsnade Heath, Bedfordshire. 28 August 1948. EMM86:6-8]  
 On gorse [Bledington Heath, Gloucestershire. 10 September 1994. GloucsHets]  
 From gorse [Byfleet. 12 September 1936. PTSLENHS1936-37:39-40]  
 On gorse [Chobham, Surrey. 23 September 1956. LondonHets]  
 On dwarf gorse (*Ulex minor*) [Bookham Common, Surrey. August. LondonHets]  
 On furze [Carmarthen. EMM48:108-111]  
 On gorse [Conway, North Wales. August/September 1924. EMM61:62-63]  
 From whin [Easton, Cumberland. August 1935. ERJV51:160-161]  
 Beating gorse [Hartlebury Common LNR, Worcestershire. EMM133:17-26]  
 At base of broom [Hounslow Heath, Middlesex. 1952. Ent86:34-40]  
 On furze [Hurst Green, East Sussex. August 1882. EMM19:115-116]  
 On firs and pines [Liskeard, Cornwall. TSBE1:51-84]  
 On furze bushes [Near Battle, East Sussex. August 1881. EMM18:113]  
 From a hedge [Near Faversham, Kent. EMM40:100-103]  
 From broom [Oxshott, Surrey. September 1903. PSLENHS1903:59-60]  
 Sweeping in a lane [Prior Rigg, Cumberland. 1915. EMM52:66]  
 In moss [Reigate district, Surrey. LondonHets]  
 On furze [Strawberry Hill, Epping Forest, Essex. LondonHets]  
 Sweeping mullein [Westleton, Suffolk. July 1900. SuffolkHets]

*Kalama tricornis* (Schrank) (Tingidae)

Sweeping a woodland ride [Between Two Mile Bottom and Santon Downham, West Norfolk. 20 June 2019. Hem6:248]  
 Sweeping [Icklingham, West Suffolk. 18 June 2019. Hem6:247]  
 Sweeping [Boxhill, Surrey. 23 June 1912. LondonHets]  
 Sweeping a woodland edge [Near Two Mile Bottom, West Norfolk. 21 June 2019. Hem6:248]  
 In short sheep-grazed herb-rich grassland [West of Hore Point, East Cornwall. 27 June 1989. BJENH4:119-121]

- Under a stone over a nest of *A. (C.) flavus* [Mother Ivy's Bay, Cornwall. 7 July 1920. Adult and nymph. AntGuests]  
 Sweeping in field [Headley Lane, Surrey. 30 July 1905. LondonHets]  
 Suction sampling chalk grassland [Hog Cliff, Dorset. 13 August 2002. HN2:7]  
 Beating pine [Chobham Common, Surrey. 27 August 1977. PTBENHS17:18-19]  
 Grubbing [Folkestone Warren, Kent. 29 August 1958. EMM95:96]  
 In sparse sward of south-facing pasture [Pentireglaze, Cornwall. 31 August 2006. CornwallHets]  
 Wind-blown sand grassland [Port Quin valley, Cornwall. 31 August 2006. CornwallHets]  
 Extracted in a Tullgren funnel from mixed herbage and roots taken from a down-like slope [West of Duddingston, near Edinburgh. 27 August 1961. EMM97:230]  
 Suction sampling chalk grassland (south facing) [Fishers Bottom, Dorset. 2 September 2002. HN2:7]  
 From a brownfield site [Southfields, Belvedere, West Kent. 14 September 2006. BJENH20:193-194]  
 At roots of short mixed herbage in gravel pit [Maze Hill, Blackheath, Kent. 19 September 1963. LondonHets]  
 Suction sampling chalk grassland [Giant Hill, Dorset. 1 October 2002. HN2:7]  
 Under stones on seashore [Ballyvaughan, Clare. July 1895. IrelandHets]  
 In the crevices between blocks of chalk, flint, etc. [Box Hill district, Surrey. Butler1923]  
 Sweeping [Brading Down, Isle of Wight. August 1926. EMM63:41-42]  
 From dry sites in a towed suction-sampler (DragVac) [Chilterns/North Wessex Downs/Cotswolds. BJENH26:217-218]  
 In nests of *Myrmica rubra* [Covehithe Broad, Suffolk. October. SuffolkHets]  
 In a chalk pit [Darenth, Kent. EMM85:23]  
 Under black medick (*Medicago lupulina*) in a disused gravel pit [Datchet, Buckinghamshire. July 1953. EMM90:40]  
 Saltmarsh [Dungarvan, Waterford. August 1933. IrelandHets]  
 Sandhills [Felixstowe, Suffolk. August. SuffolkHets]  
 On bare ground in a pit [Hedgerley Buckinghamshire. 1953/1954. Ent88:10-17]  
 Under a stone in a meadow [Near Bognor, Sussex. Butler1923]  
 Sweeping on coast [Pembrokeshire. 1927. Ent60:283-284]  
 On a parking area made from compacted limestone rubble with scattered vegetation [RAF Chicksands, Bedfordshire. EMM133:261-262]  
 Sweeping in the rides [Ranmore Common, Surrey. July 1910. LondonHets]  
 Under black medick on waste land [Slough, Buckinghamshire. 1953/1954. Ent88:10-17]  
 Under dead *Rumex* leaves in sand-pit [South Harefield, Middlesex. July 1934. Ent71:148-153]  
 Sandhills, at roots of *Sedum acre* [Southwold, Suffolk. SuffolkHets]  
 In pitfall trap set in grass heath [Stanford Training Area, VC28. 2017. BJENH31:231-237]  
 In sandpits [Suffolk. SuffolkHets]
- Lasiacantha capucina* (Germar) (Tingidae)  
 Sweeping tall waved heath [Between Chapel Porth and Porth Towan, West Cornwall. 23 May 1990. BJENH4:119-121]  
 Sweeping coastal heath [Chapel Porth, Cornwall. 23 May 1990. BJENH4:43]  
 In coastal grassland [Strumble Head, Pembrokeshire. 31 May 2005. Brachypters. HN21:8]  
 On thyme mats overhanging eroded gullies in head cliff caused by heavy trampling [Chyvarloe Cliffs, West Cornwall. 7 June 1989. BJENH4:119-121]  
 Found on cliffs where there was herb-rich grassland and grass heath, and where rocky outcrops were covered in mats of thyme. Adults occasionally visible on the thyme foliage in hot sunshine [Between Loe Pool and Beagles Point, Cornwall. 1989-1990. BJENH4:119-121]  
 Under thyme on seacliff [Holestrow, Kynance, Cornwall. May 1994. BJENH8:207]  
 Brushing wild thyme by a pathway on cliffs [Lizard, Cornwall. June 1918. Brachypters. EMM55:203-204]  
 At the roots of plants on a boulder on downs [Lizard, Cornwall. June 1918. Brachypters. EMM55:203-204]

*Oncochila simplex* (Herrich-Schaeffer) (Tingidae)

- On wood-spurge (*Euphorbia amygdaloides*) [New Forest. 3 June 1934. EMM71:113-114]
- Sweeping [Standish Wood, Gloucestershire. 5 June 1986. PTBENHS20:67]
- At the base of sea spurge (*Euphorbia paralias*) [The Warren, Folkstone. 5 August 1959. LondonHets]
- Sweeping among underwood [Bexley, Kent. May and June. D&S1865]
- Sweeping [Darenth Wood. 1869-70. EMM7:184-185]
- On *Euphorbia amygdaloides* [Pamber Forest, North Hampshire. May 1940. EMM77:101-104]
- Sweeping in a wood [Tubney Wood, near Oxford. August 1923. EMM59:237]

*Physatocheila dumetorum* (Herrich-Schaeffer) (Tingidae)

- From hawthorn [Effingham. 18 April 1931. PSLENHS1931-32:55]
- Sweeping rough grassland and tall herb at the edge of a wood [Cockshot Wood, east of Wetherby, VC64. 13 May 2015. HN23:12]
- Hawthorn [Bynorth Cliff, Cornwall. 8 June 2000. CornwallHets]
- Beating hawthorn (*Crataegus monogyna*) [Concord Golf Course, near Woolley Wood, north Sheffield, VC63. 1 August 2010. Adults. HN16:13]
- On lichen-covered sloe [Lundy Hole, St Minver Highlands, Cornwall. 3 August 2006. CornwallHets]
- On blackthorn [Pentire Point West, Crantock, Cornwall. 7 August 2006. CornwallHets]
- On hazel (*Corylus*) in a wood subjected to considerable felling and clearance [Clifton Heath, VC23. 15 August 2014. Hem2:58]
- Blackthorn [Hoe Point to Pestreath. 15 August 2005. CornwallHets]
- Beating hawthorn [Purton Timber Ponds, Gloucestershire. 15 August 1992. GloucsHets]
- On sloe [Gorranorras Creek, Penryn, Cornwall. 17 August 2006. CornwallHets]
- Blackthorn [Hoe Point to Pestreath. 19 August 2006. CornwallHets]
- On streamside hawthorn and blackthorn [Port Quinn valley, Cornwall. 31 August 2006. CornwallHets]
- Beating [Grounds of York Hull Road Travelodge, York. 12 September 2019. Hem6:265]
- On lichen-covered sloe in a windswept thicket [The Fleet, near Abbotsbury, Dorset. 12-14 September 1955. EMM91:282-283]
- Beating hawthorn (*Crataegus monogyna*) [Near Bolton-on-Dearne, Barnsley, VC63. 7 October 2010. Adults. HN16:13]
- From larch [Barton Mills/Tuddenham, Suffolk. 19-22 April 1935. EMM71:141-142]
- On hawthorn [Bembridge, Isle of Wight. August 1926. EMM63:41-42]
- On hawthorn [Bembridge, Isle of Wight. 1920/23. EMM60:117-118]
- Hawthorn [Cambridge and neighbourhood. May. EMM44:275]
- On a lichen-covered hawthorn [Hartlebury Common LNR, Worcestershire. EMM133:17-26]
- On old whitethorns [Hartlebury Common LNR, Worcestershire. EMM133:17-26]
- From a hedge [Near Faversham, Kent. EMM40:100-103]
- Beating old blackthorns [New Forest. July 1904. ERJV17:67]
- In hedges [North Kent. August 1897. EMM33:236]
- On lichen-covered sloe (*Prunus spinosa*) along the coast [Padstow area, Cornish coast. 6-13 July 1957. Nymphs. EMM94:24]
- Beating an old, lichen-covered blackthorn [Seaton, Devon. EMM35:147]
- On old blackthorn [Selworthy, near Minehead, Somerset. August 1928. EMM65:40-42]
- On hawthorn flowers [Suffolk. June. SuffolkHets]

*Physatocheila harwoodi* China (Tingidae)

- On old, lichen-covered maples [Witchampton, Dorset. 1 September 1936. EMM72:270-272]

*Physatocheila smreczynskii* China (Tingidae)

- Sweeping a woodland ride [Scaynes Hill, near Haywards Heath, Sussex. 9 April 1989. BJENH2:187]

- Beating lichen-covered apple boughs in an old orchard [Boconnoc Park, East Cornwall. 20 May 1989. BJENH4:119-121]  
 Beating apple branch [Forest Cottage Orchard, Ashclyst Forest, South Devon. 5 June 2007. BJENH21:184]  
 On crab-apple [Brokenhurst. 2 July 1950. PTSLENHS1950-51:71-72]  
 On old orchard apple trees [Haye Farm, Bohetherick, St Dominick, East Cornwall. 20 July 2006. BJENH20:232]  
 On apples trees in an orchard [Slew Orchard, Sydenham Damerel, South Devon. 23 August 2004. BJENH20:232]  
 Beating a lichen-covered apple tree [New Forest, Hampshire. 27 August 1984. PTBENHS18:20]  
 On old crab apple tree (*Malus sylvestris*) [New Forest, South Hampshire. 18 September 1994. BJENH8:207]  
 Beating lichen-covered crab apple [Darenth Wood, Kent. May 1950. EMM91:124]  
 On old apple trees [England. EMM88:49-50]  
 From old apple trees in an abandoned orchard [Ewhurst, Surrey. August 1888. EMM25:401-402]  
 On apple-trees [Glanvilles Wootton, Dorset. October. D&S1865]  
 Beating an old crab-tree [Near Brokenhurst, New Forest. September 1871. EMM8:136-137]  
 From apple [New Forest. Butler1923]

*Stephanitis rhododendri* Horváth (Tingidae)

- Off *Pyrus* in a garden [Blackheath, Kent. 20 July 1960. LondonHets]  
 Sweeping rhododendron [Rhododendron Garden, Dulwich Park, London, Surrey. 23 July 1993. BJENH6:139-140]  
 On *Rhododendron* in a garden [Camberley, Surrey. 28 July 1916. Adults. EMM52:207-208]  
 On rhododendrons [Friary Hill, Weybridge, Surrey. 28 July 1937. Ent71:23-24]  
 On underside of rhododendron leaves in a garden [Blackheath, Kent. 17 August 1964. LondonHets]  
 Sweeping the higher branches of rhododendron [Rhododendron Garden, Dulwich Park, London, Surrey. 9 September 1993. BJENH6:139-140]  
 On *Rhododendron* [Ashridge, Hertfordshire. July 1936. LondonHets]  
 Beating a climbing rose in a garden [Blackheath, West Kent. 1960. EMM98:47]  
 From a garden [Boars Hill, Bagley Wood, Berkshire. HSGN12:2]  
 On *Rhododendron* in a garden. Found on the under side of the leaves of well-established plants. Causes yellow dots on the upper surface of the leaves, and reddish-brown discoloration on the underside [Camberley, Surrey. June and July 1916. Nymphs. EMM52:207-208]  
 On *Rhododendrons* [Fulham. EMM52:207-208]  
 Presence indicated by whitish mottling and/or rust-coloured leaves of *Rhododendron*. Favours well-lighted positions, the southern and western sides of infested rhododendrons are preferred to the northern and eastern aspects. Plants growing in shade and in the cool atmosphere of woodland are rarely troubled from attacks by the bug, and attempts to grow *Rhododendrons* in open sunny positions are liable to result in severe infestations. The Series of *Rhododendron* particularly susceptible to attack are *Arboreum*, *Campanulatum*, *Ponticum* and *Thomsonii* [Great Britain. PRESL(A)14:1-5]  
 On rhododendrons [Imperial College Field Station, Silwood Park, Ascot, Berkshire. HSGN6:2]  
 On *Rhododendrons* in parks and gardens [Southern England. BJENH16:3-6]

*Stephanitis takeyai* Drake & Maa (Tingidae)

- On a shoe in a school playground [St Barnabas School, Jericho, Oxford. 15 June 2011. ERJV124:204-205]  
 Beating box (*Buxus sempervirens*) [Box Hill, Surrey. 19 August 2009. ERJV124:24]  
 Sweeping [Bricket Wood Common, VC20. 17 August 2018. Hem6:220]  
 Sweeping low vegetation around the edge of a car park [Zig Zag Car Park, Box Hill, Surrey. 23 August 2009. ERJV124:24]  
 On rhododendrons [RHS Garden, Wisley, Surrey. 15 October 2005. BJENH19:265]  
 On *Pieris japonica* [Edenthorpe, VC63. 20 October 2013. Adults. HN21:8]

On *Pieris japonica*. Eggs inserted into the leaf lamina, usually near the central vein on the lower surface [Savill Garden, Surrey. January 1998. Adults and eggs. BJENH16:3-6]  
Feeding on *Pieris japonica*, *P. formosa*, *Agarista populifolia* and *Rhododendron* [Valley Gardens, Surrey. 1998. BJENH16:3-6]  
On *P. japonica* in a garden [West Byfleet, Surrey. September 2002. BJENH16:3-6]

*Tingis ampliata* (Herrich-Schaeffer) (Tingidae)

In grass litter [Blackheath, Kent. 28 February 1959. LondonHets]  
In grass litter [Blackheath, Kent. 14 March 1959. LondonHets]  
In grass litter [Blackheath, Kent. 15 March 1961. Adult and nymph. LondonHets]  
In grass litter [Blackheath, Kent. 21 March 1959. LondonHets]  
Under rubbish by ponds [Manor Farm Lane, Lee, Kent. 16 April 1900. LondonHets]  
At roots of grass [Imperial College Biological Field Station, Slough, Buckinghamshire. 22 April 1933. TSBE2:47-67]  
Prey of a spider (*Xysticus viaticus*) on a post in a gravel pit [Fancott Gravel Pit, Bedfordshire. 3 May 1947. EMM86:6-8]  
Sweeping [Blackheath, Kent. 7 May 1960. LondonHets]  
Sweeping [Blackheath, Kent. 9 May 1960. LondonHets]  
Amongst grass on tip [Pilgrim Fort, Caterham, Surrey. 9 May 1970. LondonHets]  
On a patch of rough ground in a garden [Maidenhead, Berkshire. 11 May 1980. EMM116:132]  
On a blanket drying on a washing line [Hale End, London, E4. 17 May 1924. ERJV37:58-59]  
From old blackcurrent plantation [Long Ashton Research Station, Bristol. 17 May 1967. Females. Ent101:202-204]  
On marsh herbage [Wymington Scrubs, Bedfordshire. 18 May 1947. EMM86:6-8]  
Sweeping [Coulsdon, Surrey. 24 May 1963. LondonHets]  
From a motorway verge [M4 motorway north-west of Baydon, VC7. 25 May 2017. Hem6:230]  
On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 4 June 1953. Including eggs. TSBE12:93-112]  
Clearing on sandy heath [Hampstead Heath, Middlesex. 8 June 1950. LondonHets]  
On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 8 June 1953. TSBE12:93-112]  
On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 10 June 1953. TSBE12:93-112]  
On thistles [Epping Forest, Essex. 15 June 1912. Butler1923]  
On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 12 June 1953. TSBE12:93-112]  
On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 15 June 1953. TSBE12:93-112]  
Sweeping [Blackheath, Kent. 16 June 1959. LondonHets]  
Bombed sites [Cripplegate, Middlesex. 18 June 1955. LondonHets]  
On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 18 June 1953. TSBE12:93-112]  
On spear thistle (*Cirsium vulgare*) [Northward Hill NNR, Kent. 25 June 1977. PTBENHS11:67-68]  
On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 22 June 1953. TSBE12:93-112]  
On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 25 June 1953. TSBE12:93-112]  
On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 29 June 1953. TSBE12:93-112]  
Sweeping [Blackheath, Kent. 2 July 1958. LondonHets]  
Sweeping [Blackheath, Kent. 7 July 1958. LondonHets]  
On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 14 July 1953. TSBE12:93-112]  
Sweeping herbage by rhine [Magor, Monmouthshire. 21 July 1945. EMM91:143]

On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 22 July 1953. TSBE12:93-112]  
 On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 23 July 1953. Eggs. TSBE12:93-112]  
 On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 6 August 1953. Including overwintered adult female. TSBE12:93-112]  
 On *Cirsium arvense* growing in waste land [Rothamsted, Harpenden, Hertfordshire. 8 August 1953. Nymphs and first new adult of the season. TSBE12:93-112]  
 On the vegetative buds and leaves of Creeping Thistle (*Cirsium arvense*) [Harpenden Common, Harpenden, Hertfordshire. 2 September 1954. Adults and nymphs. TSBE12:93-112]  
 Beating potato haulms [Long Ashton Research Station, Bristol. 2 October 1968. Female. EMM109:132-139]  
 Sweeping [Addington, Surrey. 6 October 1962. PTSLENHS1962:104]  
 On gorse [Mitcham Common, Surrey. 17 October 1983. LondonHets]  
 On thistles [Epping Forest, Essex. LondonHets]  
 On creeping thistle [Hartlebury Common LNR, Worcestershire. EMM133:17-26]  
 On thistles [Kidbrook, Kent. September 1893. LondonHets]  
 Sand-hills [Lincolnshire. Saunders1892]  
 On thistle [Manor Farm, Lee, Kent. June 1891. LondonHets]  
 Sweeping grassland [Mitcham Common, Surrey. EMM123:77-81]  
 Sweeping marshy ground near a stream [Near Ferring, Sussex. August 1932. EMM69:21]  
 On thistles [Peterborough district. EG20:125-135]  
 Sweeping [Reigate, Woking, Chobham, Wimbledon, Hayling Island, Hastings. Saunders1892]  
 Suction sampling [Rothamsted Farm, Harpenden. 1954. Female. TRESL112:173-220]  
 Eggs parasitised by a Mymarid of the genus *Anaphes* [Rothamsted, Harpenden, Hertfordshire. 1953. Eggs. TSBE12:93-112]  
 Eggs imbedded in thistle stems [Rothamsted/Harpenden, Hertfordshire. 1953/1954. Eggs. TSBE12:93-112]

*Tingis angustata* (Herrich-Schaeffer) (Tingidae)

Sweeping [Gosfield, Essex. 2 May 1903. EMM39:300-301]  
 Sweeping [Barming, Kent. TSBE11:245-280]  
 In sacking in a cultivated apple plantation [Billingshurst, West Sussex. EMM78:48]  
 Sweeping [Near Cisbury, Worthing. EMM25:34-35]  
 Sweeping at the side of a footpath in a wood [Oaken Wood, East Malling, Kent. EMM78:48]

*Tingis cardui* (Linnaeus) (Tingidae)

In hollow stems of dead *Heracleum sphondylium* [Rickmansworth, Hertfordshire. 27 February 1933. Adults. LondonHets]  
 In grass [Imperial College Biological Field Station, Slough, Buckinghamshire. 10 April 1935. JSBE1:165-166]  
 In a suction trap [Ardington, Berkshire. 8 May 1954. EMM93:121-126]  
 In a suction trap [Ardington, Berkshire. 10 May 1954. EMM93:121-126]  
 On thistles [Albury Mill Pond, Surrey. 12 May 1934. PTSLENHS1934-35:12-15]  
 In a suction trap [Ardington, Berkshire. 11 May 1954. EMM93:121-126]  
 In a suction trap [Ardington, Berkshire. 12 May 1954. EMM93:121-126]  
 On a patch of rough ground in a garden [Maidenhead, Berkshire. 11 May 1980. EMM116:132]  
 On thistles [Forty-foot Lane, Souldrop, Bedfordshire. 18 May 1947. EMM86:6-8]  
 On a blanket drying on a washing line [Hale End, London, E4. 17 May 1924. ERJV37:58-59]  
 On *Cirsium vulgare* [Penglais, Aberystwyth, Cardiganshire. 29 May 1955. Male and female. EMM92:54-64]  
 On Spear Thistle [Abbey Wood, Kent. 9 June 1964. Adult. LondonHets]  
 On marsh thistle [Portheras Cove, Cornwall. 6 June 2005. CornwallHets]  
 On spear thistle (*Cirsium vulgare*) [Northward Hill NNR, Kent. 25 June 1977. PTBENHS11:67-68]

- In a wood [Beechen Wood, Lullingstone Park, Kent. 4 July 1970. LondonHets]  
 In arable fields [West Pentire, West Cornwall. 11 July 2003. BJENH18:165-170]  
 On thistles by roadside [Blackhafield's Plantation, Ampthill, Bedfordshire. 20 July 1948. EMM86:6-8]  
 On involucre of *Cirsium vulgare* on waste land [Derwenlas, Montgomeryshire. 20 July 1955. Nymphs. EMM92:54-64]  
 On spear-thistle by a canal [Ivel Canal, Broom, Bedfordshire. 20 July 1947. Adults and nymphs. EMM86:6-8]  
 On involucre of *Cirsium vulgare* on sand dunes [Ynyslas, Aberystwyth, Cardiganshire. 17 July 1955. Male and nymphs. EMM92:54-64]  
 On thistles [Long Lane Pit, Bedfordshire. 25 July 1948. EMM86:6-8]  
 On involucre of *Cirsium vulgare* at the edge of a bog [Tregaron Bog Nature Reserve, Cardiganshire. 22 July 1955. Nymphs. EMM92:221-225]  
 On thistle [Gomshall, Surrey. 9 August 1936. PTSLENHS1936-37:30-32]  
 Sweeping arable fields [West Pentire Farm, Crantock, Cornwall. 31 August 2006. CornwallHets]  
 On *Cirsium vulgare* in a field [Fawkham, Kent. 11 September 1954. TSBE12:93-112]  
 On thistles [Long Lane Pit, Bedfordshire. 15 September 1946. EMM86:6-8]  
 In a suction trap [Rothamsted, Harpenden, Hertfordshire. 20 September 1954. TSBE12:93-112]  
 On grassland [Aberystwyth, Cardiganshire. EMM92:54-64]  
 Sweeping [Armagh. EMM29:35-37]  
 On thistles, just below the inflorescence on the side away from the sun [Bardsey Island, Caernarvonshire. EG25:45-51]  
 From larch [Barton Mills/Tuddenham, Suffolk. 19-22 April 1935. EMM71:141-142]  
 On Spear Thistle (*Cirsium vulgare*), and occasionally *Cirsium palustre*. Mostly on the involucre, or just below. Eggs laid in leaves adjacent to the involucre on either side of the midrib, upper or lower surface, usually near the tip. The emerged nymph crawls to the flowering head [Britain. TSBE12:93-112]  
 On the heads of *Cnicus lanceolatus* amongst the involucre scales [British Isles. Butler1923]  
 On mudflats below a seawall [Brownsea Island, Poole Harbour, Dorset. 2006/2007. EG60:37-71]  
 From a demolition site [Derby. 1982. EMM120:253-258]  
 On thistles. Seen attached to thistle seeds carried away by the wind [Dumfriesshire. 1935. EMM72:96]  
 From beds of thistles [Easton, Cumberland. ERJV51:160-161]  
 On *Cirsium vulgare* [Fairmead, Epping Forest, Essex. LondonHets]  
 On thistles [Hounslow Heath, Middlesex. 1952. Ent86:34-40]  
 On thistles [Kidbrook, Kent. September 1893. LondonHets]  
 From a hedge [Near Faversham, Kent. EMM40:100-103]  
 On cultivated raspberries [Near Forfar, Angus. EMM88:51-62]  
 On thistles [Near Lake Maelog, Anglesey. September 1923. Adults and nymphs. EMM60:37-39]  
 From a hedge of mixed vegetation [Near St Ives and Hayle, West Cornwall. September 1888. EMM25:237-238]  
 On thistleheads in a flowery meadow on chalk [Near Stevenage, Hertfordshire. 1880. All stages. EMM17:234-235]  
 On thistles [North side of Loch Scresort, Isle of Rhum. 1961. TSBE18:91-167]  
 Sweeping a sheep-grazed upland pasture [Redesdale, Northumberland. 1990. Ent113:70-81]  
 In a suction trap [Rothamsted Experimental Station, Harpendon. 1953. Male. TRESL112:173-220]  
 In a suction trap [Rothamsted Farm, Harpenden. 1954. Female. TRESL112:173-220]  
 In a suction trap [Rothamsted, Harpenden, Hertfordshire. Late May. TSBE12:93-112]  
 Beating *Pinus* [South Wales. Butler1923]  
 On thistles [St Ives and Carbis Bay, Cornwall. TSBE1:51-84]  
 On thistles [Suffolk. SuffolkHets]  
 On *Cirsium vulgare* [Tea, Tresco, Isles of Scilly. EMM102:67-69]

*Tingis reticulata* Herrich-Schaeffer (Tingidae)

- From bugle (*Ajuga reptans*) [Whitecross Green Wood, Buckinghamshire. 6 May 2011. BJENH27:11-12]  
 On *Ajuga* [Chipstead, Surrey. 19 May 1956. LondonHets]  
 From moss [Trottiscliffe Downs, Kent. 18 May 1958. EMM95:96]  
 Shaken off a flower of bugle (*Ajuga reptans*) [Trottiscliffe Downs, Kent. 18 May 1958. EMM95:96]  
 From bugle (*Ajuga reptans*) [Whitecross Green Wood, Buckinghamshire. 24 May 2010. BJENH27:11-12]  
 On *Verbascum nigrum* [Box Hill, Surrey. 23 July 1932. TPSLENHS1932-33:90-91]  
 In a place where *Ajuga reptans* (common bugle) was growing amongst wood-sage and ground-ivy. Some were on the *Ajuga* and others were amongst thick moss at the roots of the various plants [Box Hill, Surrey. 5 August 1900. EMM39:69-70]  
 Sweeping a sparsely-vegetated clearing [Whitecross Green Wood, Buckinghamshire. 7 August 2008. BJENH27:11-12]  
 On the underside of dried-up leaves of *Verbascum* [Boxhill, Surrey. 16 September 1917. LondonHets]  
 Sweeping a hedge bottom [Bentley Woods, Suffolk. April 1895. SuffolkHets]  
 In weathered and curled leaves of Mullein (*Verbascum thapsus*) [Boxhill, Surrey. October 1917. LondonHets]  
 Bugle (*Ajuga reptans*) [Chilterns. Eggs. EMM95:96]  
 Suction-sampling bugle growing along base of spoil heaps in a sheltered area along a woodland edge [Micheldever Spoil Heaps, VC12. May-July 2002. HN3:5]  
 In grass roots [Ring Haw, near Peterborough. EG20:125-135]

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 as *Orthostira brunnea* EMM10:242-243, EMM29:35-37, EMM69:234-245, Saunders1892  
 as *Orthostira concinna* D&S1865, EMM6:232  
 as *Tingis brunnea* EMM10:187-189

*Acalypta carinata* (Panzer) (Tingidae)

- as *A. carinata* EMM81:253-273, EMM82:94-95  
 as *Acal. carinata* EMM91:7-27  
 as *Acalypta carinata* BJENH25:224-225, BJENH27:220, CornwallHets, EG20:125-135, EMM104:22, EMM89:2, EMM92:68-71, ERJV123:161-162, GloucsHets, Hem1:16, Hem1:17, Hem1:34, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:32, Hem2:40, Hem2:46, Hem2:48, Hem3:24, Hem3:25, Hem3:4, Hem3:42, Hem3:54, Hem3:76, Hem4:133, Hem4:144, Hem4:29, Hem4:41, Hem4:5, Hem4:71, Hem4:87, Hem5:105, Hem5:121, Hem5:135, Hem5:139, Hem5:161, Hem5:194, Hem5:4, Hem5:42, Hem5:57, Hem5:71, Hem6:254, Hem6:258, Hem6:277, Hem6:66, HN2:6, HN2:7, HN6:2, HSGN10:12, HSGN11:6, HSGN12:4, HSGN7:4, LondonHets, PTBENHS19:55, PTSLENHS1962:123-183, S&L1959, TRESL103:171-218, TSBE1:51-84, TSBE11:245-280

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*Acalypta nigrina* (Fallén) (Tingidae)

- as *A. nigrina* EMM81:253-273
- as *Acal. nigrina* EMM91:7-27
- as *Acalypta macrophthalma* Butler1923, EMM53:251-252, Synopsis1875
- as *Acalypta macrophthalma* HantsHets
- as *Acalypta marginata* EMM75:132, EMM81:253-273
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*Acalypta parvula* (Fallén) (Tingidae)

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- as *Acal. parvula* EMM91:7-27
- as *Acalypta parvula* BJENH13:106-107, BJENH25:224-225, BJENH26:217-218, BJENH28:5-15, BJENH30:107-108, BJENH30:29-30, BJENH31:231-237, Butler1923, CornwallHets, EG43:221-226, EMM104:95, EMM133:17-26, EMM14:165-167, EMM149:136-137, EMM149:271-272, EMM17:259-260, EMM19:117, EMM21:24, EMM26:81-82, EMM48:108-111, EMM52:66, EMM60:117-118, EMM60:37-39, EMM66:43-44, EMM71:164, EMM73:234-235, EMM81:183-185, EMM89:132-134, EMM89:17, EMM90:99-102, EMM92:54-64, EMM92:68-71, Ent71:148-153, Ent88:10-17, ERJV101:47-49, ERJV123:161-162, ERJV47:13-14, GloucsHets, HantsHets, Hem1:16, Hem1:17, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:27, Hem2:32, Hem2:44, Hem3:24, Hem3:25, Hem3:4, Hem3:42, Hem3:54, Hem3:76, Hem3:85, Hem3:95, Hem4:104, Hem4:133, Hem4:29, Hem4:38, Hem4:5, Hem4:71, Hem4:87, Hem5:105, Hem5:121, Hem5:139, Hem5:150, Hem5:155, Hem5:161, Hem5:18, Hem5:194, Hem5:206, Hem5:28, Hem5:4, Hem5:42, Hem5:57, Hem5:71, Hem5:94, Hem6:244, Hem6:254, Hem6:258, Hem6:263, Hem6:265, Hem6:277, Hem6:66, HN17/18:25, HN2:7, HN23:5, HSGN1:14, HSGN10:12, HSGN11:7, HSGN11:9, HSGN12:4, HSGN4:4, IrelandHets, LondonHets, PESL1884:xi, PTSLENHS1962:123-183, PTSLENHS1963Part1:73-74, PTSLENHS1965:91, S&L1959, Synopsis1875, TSBE1:51-84, TSBE11:245-280, TSBE18:91-167, TSBE19:173-235
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*Acalypta platycheila* (Fieber) (Tingidae)

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- as *Acal. platycheila* EMM91:7-27
- as *Acalypta nigrina* EMM70:68
- as *Acalypta platycheila* BJENH25:205-215, EMM81:253-273, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem3:4, Hem4:133, Hem4:29, Hem4:41, Hem4:45, Hem4:5, Hem5:105, Hem5:150,

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*Agramma laetum* (Fallén) (Tingidae)

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 as *Agr. laeta* EMM91:7-27  
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*Campylosteira verna* (Fallén) (Tingidae)

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 as *Camp. verna* EMM91:7-27  
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*Catoplatus fabricii* (Stål) (Tingidae)

- as *C. fabricii* EMM81:253-273, EMM82:94-95  
 as *Cat. fabricii* EMM91:7-27  
 as *Catoplatus fabricii* BJENH11:110, BJENH26:217-218, BJENH27:125-126, BJENH29:28, CornwallHets, EMM133:175-176, EMM93:245, EMM95:280, Ent92:6-13, GloucsHets, Hem1:18, Hem1:32, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:22, Hem2:27, Hem2:33, Hem3:105, Hem3:4, Hem3:42, Hem3:95, Hem4:133, Hem4:29, Hem4:5, Hem4:71, Hem4:87, Hem5:105, Hem5:122, Hem5:135, Hem5:4, Hem5:42, Hem5:57, Hem5:94, Hem6:220, Hem6:68, HN16:13, HN17/18:8, HN2:6, HN2:7, HN3:5, HN9:4, HN9:6, HSGN1:5, HSGN8:9, LondonHets, PTBENHS17:18, PTBENHS17:18-19, PTBENHS20:67, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280  
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 as *Monanthia fabricii* Butler1923, Ent59:84-85, Ent71:148-153, HantsHets

*Corythucha ciliata* (Say) (Tingidae)

as *Corythucha ciliata* BJENH20:194, BJENH20:233-240, BJENH25:205-215, ERJV124:204-205, Hem1:46, Hem1:47, Hem1:6, Hem3:4, Hem4:113, Hem4:117, Hem4:121, Hem4:5, Hem4:71, Hem5:105, Hem5:150, Hem5:4, Hem6:68, HN10:2, HN12:4, HN8:8, HN9:14

*Derephysia foliacea* (Fallén) (Tingidae)

as *D. foliacea* EMM81:253-273, EMM82:94-95

as *Der. foliacea* EMM91:7-27

as *Derephysia foliacea* BJENH28:5-15, Butler1923, CornwallHets, D&S1865, EG20:125-135, EMM114:21-24, EMM16:114, EMM17:234-235, EMM19:117-119, EMM25:237-238, EMM44:32-34, EMM48:108-111, EMM52:66, EMM64:62-64, EMM65:40-42, EMM68:213-214, EMM69:234-245, EMM70:162, EMM74:20-21, EMM89:17, EMM91:282-283, EMM97:32-33, Ent27:222, Ent33:316, Ent89:13-15, ERJV101:47-49, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:33, Hem2:42, Hem2:44, Hem3:24, Hem3:25, Hem3:42, Hem3:5, Hem3:76, Hem4:104, Hem4:133, Hem4:17, Hem4:19, Hem4:29, Hem4:38, Hem4:5, Hem4:71, Hem4:87, Hem5:105, Hem5:122, Hem5:139, Hem5:155, Hem5:161, Hem5:18, Hem5:194, Hem5:206, Hem5:28, Hem5:42, Hem5:5, Hem5:57, Hem5:71, Hem5:94, Hem6:277, Hem6:68, HN17/18:25, HSGN13:13, IrelandHets, JSBE1:165-166, LondonHets, PTSLENHS1937-38:49-50, PTSLENHS1962:123-183, PTSLENHS1964:37-38, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TRESL112:173-220, TSBE1:51-84, TSBE11:245-280

as *Derephysia foliaceus* HantsHets

as *Derophysia foliacea* EMM16:175, Ent24:261-263, PSLENHS1900:85

*Dictyla convergens* (Herrich-Schaeffer) (Tingidae)

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as *M. humuli* EMM81:253-273, EMM82:94-95

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as *Monanthia Humuli* D&S1865

*Dictyonota fuliginosa* A. Costa (Tingidae)

as *D. fuliginosa* EMM81:253-273, EMM82:94-95

as *Dict. fuliginosa* EMM91:7-27

as *Dictyonota fuliginosa* EMM103:58-59, EMM33:262

as *Dictyonota Fieberi* EMM4:238-246, EMM9:119

as *Dictyonota fuliginosa* BJENH25:75-77, Butler1923, EMM106:164, EMM54:132-136, EMM60:39, EMM69:234-245, EMM71:113-114, EMM90:237, EMM92:341, EMM97:32-33, Ent30:275, Ent36:295, Ent71:148-153, ERJV105:279, HantsHets, Hem1:36, Hem1:37, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:22, Hem3:105, Hem3:42, Hem3:5, Hem3:76, Hem3:85, Hem4:104, Hem4:134, Hem4:29, Hem4:38, Hem4:5, Hem5:105, Hem5:135, Hem5:194, Hem5:28, Hem5:5, Hem5:57, Hem6:235, Hem6:69, HSGN8:9, LondonHets, PRESL(A)35:39-46, PSLENHS1897:141, PSLENHS1898:16-23, PSLENHS1903:59-60, PTBENHS18:20, PTSLENHS1956:111-136, PTSLENHS1962:123-183, PTSLENHS1965:91, S&L1959, Saunders1892, SuffolkHetsAnn, Synopsis1875, TSBE11:245-280

*Dictyonota strichnocera* Fieber (Tingidae)

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- as *Dict. strichnocera* EMM91:7-27
- as *Dictyonota stichnocera* PTBENHS17:18-19
- as *Dictyonota strichnocera* Butler1923, CornwallHets, D&S1865, EG20:125-135, EMM106:164, EMM133:17-26, EMM14:186-187, EMM15:255-256, EMM18:113, EMM19:115-116, EMM40:100-103, EMM48:108-111, EMM52:66, EMM54:132-136, EMM58:179-182, EMM60:117-118, EMM61:62-63, EMM65:40-42, EMM66:43-44, EMM69:234-245, EMM71:113-114, EMM86:6-8, EMM89:132-134, Ent36:295, Ent59:84-85, Ent86:34-40, Ent92:6-13, ERJV105:279, ERJV51:160-161, GloucsHets, HantsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:33, Hem2:42, Hem2:44, Hem3:42, Hem3:5, Hem3:76, Hem3:95, Hem4:104, Hem4:134, Hem4:29, Hem4:38, Hem4:5, Hem4:71, Hem4:87, Hem5:105, Hem5:122, Hem5:155, Hem5:161, Hem5:18, Hem5:194, Hem5:28, Hem5:42, Hem5:5, Hem5:57, Hem5:71, Hem5:94, Hem6:220, Hem6:277, Hem6:69, HN17/18:25, HSGN1:13, HSGN1:8, HSGN13:13, HSGN6:3, LondonHets, PSLENHS1903:59-60, PTSLENHS1936-37:39-40, PTSLENHS1946-47:73-74, PTSLENHS1952-53:83-84, PTSLENHS1962:123-183, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TRESL103:171-218, TRESL112:173-220, TSBE1:51-84, TSBE11:245-280, TSBE16:1-48

*Kalama tricornis* (Schränk) (Tingidae)

- as *A. tricornis* EMM81:253-273, EMM82:94-95
- as *Alcletha tricornis* EMM85:23, EMM89:17
- as *Dict. tricornis* EMM91:7-27
- as *Dictyonota tricornis* AntGuests
- as *Dictyonota crassicornis* D&S1865, EMM17:234-235, EMM26:81-82, EMM4:238-246, EMM43:196-202, EMM44:275, EMM69:234-245, ERJV14:37-40, Saunders1892, SuffolkHets, Synopsis1875
- as *Dictyonota tricornis* BJENH20:193-194, BJENH25:205-215, Butler1923, EG20:125-135, EG48:23-33, EMM126:20, EMM48:108-111, EMM58:179-182, EMM63:41-42, EMM71:113-114, EMM90:40, EMM92:54-64, EMM93:49-51, EMM95:96, EMM97:230, Ent47:146-147, Ent59:84-85, Ent60:283-284, Ent71:148-153, Ent88:10-17, Ent92:6-13, ERJV42:77, HantsHets, IrelandHets, LondonHets, PTBENHS17:18-19, PTSLENHS1962:123-183, PTSLENHS1966:118, S&L1959, TSBE1:51-84, TSBE11:245-280
- as *Kalama tricornis* BJENH25:205-215, BJENH26:217-218, BJENH31:231-237, BJENH4:119-121, CornwallHets, EMM133:261-262, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:22, Hem2:33, Hem3:105, Hem3:24, Hem3:25, Hem3:42, Hem3:5, Hem3:76, Hem4:104, Hem4:134, Hem4:148, Hem4:29, Hem4:38, Hem4:41, Hem4:5, Hem4:72, Hem4:87, Hem5:105, Hem5:122, Hem5:155, Hem5:161, Hem5:194, Hem5:28, Hem5:42, Hem5:5, Hem5:57, Hem6:247, Hem6:248, Hem6:70, HN2:7, HSGN4:A9, HSGN6:3, LondonHets

*Lasiacantha capucina* (Germar) (Tingidae)

- as *L. capucina* EMM81:253-273
- as *Las. capucina* EMM91:7-27
- as *Lasiacantha capucina* BJENH3:90, BJENH30:7-11, BJENH4:119-121, BJENH4:43, BJENH7:174-175, BJENH8:207, Butler1923, CornwallHets, EMM55:203-204, EMM69:13-15, EMM89:17, Ent89:13-15, HantsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem3:5, Hem4:5, Hem4:72, Hem5:105, Hem5:150, Hem5:5, Hem6:70, HN21:8, HN6:13, HSGN1:4, HSGN10:3, HSGN11:2, HSGN12:8, HSGN13:13, HSGN8:9, PTBENHS4:17, PTSLENHS1956:111-136, S&L1959, TSBE1:51-84
- as *Lasiocampa capucina* TSBE12:93-112

*Oncochila simplex* (Herrich-Schaeffer) (Tingidae)

- as *Monanthia simplex* Butler1923, D&S1865, EMM44:22-29, EMM6:136, EMM69:234-245, EMM7:184-185, HantsHets, Saunders1892, Synopsis1875

- as *O. simplex* EMM81:253-273  
as *Onc. simplex* EMM91:7-27  
as *Oncochila simplex* EMM59:237, EMM71:113-114, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:33, Hem3:42, Hem3:5, Hem4:134, Hem4:5, Hem5:105, Hem5:122, Hem5:42, Hem5:5, Hem5:57, Hem6:70, HSGN7:3, HSGN8:9, LondonHets, PTBENHS18:20, PTBENHS20:67, PTSLENHS1956:111-136, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280  
as *Onochila simplex* EMM77:101-104
- Physatocheila dumetorum* (Herrich-Schaeffer) (Tingidae)  
as *Monanthia dumetorum* Butler1923, D&S1865, EMM33:236, EMM35:147, EMM40:100-103, EMM44:22-29, EMM44:275, EMM69:234-245, Ent37:292, ERJV17:67, HantsHets, PSLENHS1904:73, PSLENHS1931-32:55, Saunders1892, SuffolkHets, Synopsis1875  
as *Monanthia similis* EMM5:259-268  
as *P. dumetorum* EMM81:253-273  
as *Phys. dumetorum* EMM91:7-27  
as *Physatocheila confinis* BJENH32:363-364, EMM72:270-272, Hem1:2, Hem1:46, Hem1:47, Hem1:6, Hem2:2, Hem2:5, Hem3:5, Hem4:5, Hem5:105, Hem5:5, Hem5:81, Hem6:1, HSGN4:A10, HSGN4:A5  
as *Physatocheila dumentorum* BJENH18:233-252  
as *Physatocheila dumetorum* BJENH2:187, BJENH29:27, CornwallHets, EMM133:17-26, EMM72:270-272, EMM88:49-50, EMM91:282-283, EMM94:24, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:2, Hem2:22, Hem2:33, Hem2:5, Hem2:58, Hem3:42, Hem3:5, Hem3:76, Hem3:95, Hem4:104, Hem4:134, Hem4:148, Hem4:151, Hem4:29, Hem4:38, Hem4:41, Hem4:5, Hem4:72, Hem4:87, Hem5:105, Hem5:122, Hem5:135, Hem5:150, Hem5:155, Hem5:18, Hem5:188, Hem5:194, Hem5:28, Hem5:42, Hem5:5, Hem5:57, Hem5:71, Hem5:94, Hem6:218, Hem6:260, Hem6:265, Hem6:266, Hem6:272, Hem6:277, Hem6:71, HN16:13, HN17/18:25, HN23:12, HSGN4:A10, LondonHets, PTSLENHS1947-48:71, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280  
as *Physatochila dumetorum* EMM63:41-42, EMM65:17, EMM65:40-42, EMM71:141-142, TSBE1:51-84  
as *Tingis dumetorum* EMM60:117-118
- Physatocheila harwoodi* China (Tingidae)  
as *P. harwoodi* EMM81:253-273  
as *Phys. harwoodi* EMM91:7-27  
as *Physatocheila harwoodi* EMM72:270-272, EMM81:253-273, EMM85:152-156, EMM88:49-50, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem3:5, Hem4:5, Hem4:72, Hem5:105, Hem5:5, Hem6:71, HN16:3, HSGN1:4, HSGN8:9, PTSLENHS1956:111-136, S&L1959
- Physatocheila smreczynskii* China (Tingidae)  
as *Monanthia 4-maculata* EMM36:262, EMM8:136-137  
as *Monanthia quadrimaculata* Butler1923, D&S1865, EMM25:401-402, EMM44:22-29, EMM69:234-245, HantsHets, Saunders1892, Synopsis1875  
as *P. quadrimaculata* EMM81:253-273  
as *Phys. smreczynskii* EMM91:7-27  
as *Physatocheila costata* BJENH2:187, PTBENHS18:20, PTBENHS4:17, PTSLENHS1962:123-183  
as *Physatocheila costata smreczynskii* LondonHets  
as *Physatocheila quadrimaculata* EMM72:270-272, EMM88:49-50, PTSLENHS1950-51:71-72  
as *Physatocheila smreczynskii* BJENH18:54, BJENH20:232, BJENH21:184, BJENH4:119-121, BJENH4:43, BJENH8:207, CornwallHets, EMM88:49-50, EMM91:124, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:33, Hem3:42, Hem3:5, Hem4:134, Hem4:5, Hem4:72, Hem5:105, Hem5:122, Hem5:42, Hem5:5, Hem5:57, Hem5:94, Hem6:71,

HN8:15, HSGN10:3, HSGN11:2, HSGN12:8, HSGN4:A5, HSGN7:4, HSGN8:9, JSBE5:179-186, JSBE6:55-56, S&L1959

*Stephanitis rhododendri* Horváth (Tingidae)

- as *Leptobursa rhododendri* Ent71:23-24, ERJV49:130
- as *Leptobyrssa rhododendri* EMM53:236
- as *S. rhododendri* EMM81:253-273, EMM82:94-95
- as *Steph. rhododendri* EMM91:7-27
- as *Stephanitis rhododendri* BJENH10:177, BJENH12:239-240, BJENH16:3-6, BJENH6:139-140, BJENH7:174, BJENH7:30, EMM112:176, EMM52:207-208, EMM53:111, EMM81:253-273, EMM84:51-52, EMM85:193-206, EMM89:132-134, EMM90:99-102, EMM91:vii, EMM98:272, EMM98:47, Ent111:134-150, Ent89:220-222, Ent95:137-143, ERJV124:24, ERJV32:42, HN16:8, HN9:7, HSGN5:1, HSGN6:2, HSGN7:3, LondonHets, PRESL(A)14:1-5, PRESL(A)44:173-185, PSLENHS1919-20:82, PTSLENHS1937-38:16, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280, TSBE12:93-112
- as *Stephanitis rhododendri* Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem3:42, Hem3:5, Hem3:76, Hem4:104, Hem4:112, Hem4:134, Hem4:29, Hem4:5, Hem4:72, Hem4:87, Hem5:105, Hem5:122, Hem5:139, Hem5:161, Hem5:28, Hem5:42, Hem5:5, Hem5:57, Hem5:71, Hem5:94, Hem6:271, Hem6:72, HN17/18:25, HSGN12:2, HSGN13:13, HSGN4:A3

*Stephanitis takeyai* Drake & Maa (Tingidae)

- as *Stephanitis takeyae* BJENH11:115
- as *Stephanitis takeyai* BJENH16:3-6, BJENH19:265, BJENH25:205-215, ERJV124:204-205, ERJV124:24, Hem1:46, Hem1:47, Hem1:6, Hem3:105, Hem3:5, Hem4:104, Hem4:112, Hem4:116, Hem4:121, Hem4:148, Hem4:72, Hem4:87, Hem5:105, Hem5:150, Hem5:194, Hem5:5, Hem6:220, Hem6:283, Hem6:72, HN10:2, HN21:8

*Tingis ampliata* (Herrich-Schaeffer) (Tingidae)

- as *Monanthia ampliata* Butler1923, D&S1865, EMM44:22-29, EMM44:275, EMM5:259-268, EMM69:234-245, Ent27:222, ERJV37:58-59, ERJV47:13-14, HantsHets, PSLENHS1900:78, PTSLENHS1934-35:17-19, Saunders1892, SuffolkHets, Synopsis1875, TSBE2:47-67
- as *Monanthia amplicata* Ent33:315
- as *T. ampliata* EMM81:253-273, EMM82:94-95
- as *Tin. ampliata* EMM91:7-27
- as *Tingis ampliata* BJENH28:5-15, CornwallHets, EG20:125-135, EMM109:132-139, EMM116:132, EMM123:77-81, EMM133:17-26, EMM149:165-180, EMM69:21, EMM86:6-8, EMM89:216, EMM91:143, EMM92:54-64, EMM93:49-51, Ent101:202-204, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:33, Hem2:44, Hem3:42, Hem3:5, Hem3:76, Hem3:85, Hem3:95, Hem4:104, Hem4:134, Hem4:148, Hem4:19, Hem4:29, Hem4:5, Hem4:72, Hem4:87, Hem5:105, Hem5:122, Hem5:18, Hem5:194, Hem5:28, Hem5:42, Hem5:5, Hem5:57, Hem5:71, Hem5:94, Hem6:218, Hem6:230, Hem6:277, Hem6:72, HN17/18:25, HSGN1:13, HSGN13:13, HSGN5:4, LondonHets, PTBENHS11:67-68, PTSLENHS1947-48:61-62, PTSLENHS1949-50:36-38, PTSLENHS1950-51:75-76, PTSLENHS1953-54:4, PTSLENHS1956:111-136, PTSLENHS1962:104, PTSLENHS1962:123-183, S&L1959, TRESL112:173-220, TSBE1:51-84, TSBE11:245-280, TSBE12:93-112

*Tingis angustata* (Herrich-Schaeffer) (Tingidae)

- as *Monanthia angustata* Butler1923, EMM25:34-35, EMM25:41, EMM39:300-301, EMM44:22-29, EMM78:48, HantsHets, PESL1888:xviii-xix, Saunders1892
- as *T. angustata* EMM81:253-273
- as *Tin. angustata* EMM91:7-27
- as *Tingis angustata* Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem3:5, Hem4:104, Hem4:134, Hem4:5, Hem5:105, Hem5:34, Hem5:42, Hem5:5, Hem6:73, HSGN1:4, HSGN7:4, HSGN8:9, PTSLENHS1956:111-136, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280

*Tingis cardui* (Linnaeus) (Tingidae)

- as *Monanthia cardui* Butler1923, D&S1865, EMM14:165-167, EMM17:234-235, EMM21:24, EMM25:237-238, EMM25:34-35, EMM25:41, EMM26:81-82, EMM29:261-262, EMM29:35-37, EMM33:217-220, EMM40:100-103, EMM44:22-29, EMM48:108-111, EMM53:112-113, EMM58:231, EMM6:183, EMM68:213-214, EMM69:234-245, Ent24:261-263, Ent33:315, Ent34:135, Ent59:84-85, ERJV15:134, ERJV37:58-59, ERJV51:160-161, HantsHets, JSBE1:165-166, PESL1884:xi, PESL1888:xviii-xix, PSLENHS1900:78, PSLENHS1903:3-6, PTSLENHS1934-35:12-15, PTSLENHS1936-37:30-32, Saunders1892, SuffolkHets, Synopsis1875
- as *T. cardui* EMM81:253-273, EMM82:94-95
- as *Tin. cardui* EMM91:7-27
- as *Tingis cardui* BJENH18:165-170, CornwallHets, EG20:125-135, EG25:45-51, EG60:37-71, EMM102:67-69, EMM116:132, EMM120:253-258, EMM60:117-118, EMM60:37-39, EMM61:62-63, EMM64:62-64, EMM66:43-44, EMM71:141-142, EMM72:96, EMM86:6-8, EMM88:51-62, EMM89:17, EMM92:221-225, EMM92:54-64, EMM93:121-126, EMM93:49-51, Ent113:70-81, Ent86:34-40, Ent89:223-231, Ent92:6-13, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:33, Hem3:105, Hem3:24, Hem3:25, Hem3:42, Hem3:5, Hem3:76, Hem3:86, Hem4:104, Hem4:134, Hem4:148, Hem4:29, Hem4:5, Hem4:72, Hem4:87, Hem5:105, Hem5:122, Hem5:139, Hem5:155, Hem5:161, Hem5:18, Hem5:194, Hem5:206, Hem5:28, Hem5:42, Hem5:5, Hem5:57, Hem5:71, Hem5:94, Hem6:231, Hem6:73, HN17/18:25, HSGN1:13, HSGN1:14, HSGN1:8, HSGN10:11, HSGN11:10, HSGN11:6, HSGN12:12, HSGN13:13, HSGN3:11, HSGN5:4, IrelandHets, LondonHets, PRESL(A)15:1-11, PTBENHS11:67-68, PTSLENHS1949-50:36-38, PTSLENHS1950-51:80-81, PTSLENHS1956:111-136, PTSLENHS1962:123-183, PTSLENHS1963Part1:67, PTSLENHS1964:37-38, PTSLENHS1965:56-57, PTSLENHS1965:59-60, S&L1959, TRESL112:173-220, TSBE1:51-84, TSBE11:245-280, TSBE12:93-112, TSBE15:117-134, TSBE18:91-167

*Tingis reticulata* Herrich-Schaeffer (Tingidae)

- as *Monanthia ciliata* Butler1923, EMM35:270, EMM39:69-70, EMM44:22-29, EMM69:234-245, Ent33:317, HantsHets, PSLENHS1900:88, Saunders1892, SuffolkHets, PTSLENHS1932-33:90-91
- as *Monanthia reticulata* D&S1865, EMM39:69-70, Synopsis1875
- as *T. reticulata* EMM81:253-273
- as *Tin. reticulata* EMM91:7-27
- as *Tingis reticulata* BJENH27:11-12, EG20:125-135, EMM66:43-44, EMM90:250, EMM93:49-51, EMM95:96, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:22, Hem2:33, Hem3:42, Hem3:5, Hem4:104, Hem4:134, Hem4:29, Hem4:5, Hem4:72, Hem4:87, Hem5:105, Hem5:122, Hem5:150, Hem5:194, Hem5:28, Hem5:42, Hem5:5, Hem5:57, Hem5:94, Hem6:73, HN22:7, HN3:5, HSGN7:4, LondonHets, PTBENHS18:20, PTSLENHS1951-52:xvi, PTSLENHS1962:123-183, PTSLENHS1962:92, PTSLENHS1962:99-100, S&L1959, TSBE11:245-280

**Tabulated summaries**

On the following pages are summaries of the results of this review for each of the species in scope. The common name is that used in the literature consulted; or has been created from aspects of the species natural history. The first report is the first mention of the species in the literature consulted, starting at D&S1865. The ambiguities, if they occur, refer to the ambiguous species names of Hem2:4-8, Hem3:15-17, Hem5:14-15 and Hem5:114-118. The geographical distribution is based upon records published elsewhere in this journal; and is shown as a map from the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The presence of a vice-county record is shown with a black fill, and the absence with a white fill. The seasonal distribution is based on the heximonth records listed above and is shown as a calendar. The presence of an adult record is shown with a black fill, and the absence with a white fill, with a figure representing the number

of distinct records in the above list. The existence of nymph and egg records is shown by the letters 'N' and 'E', respectively, without a figure. Heximonth records are assumed to be adult unless explicitly stated otherwise. The other details is a narrative constructed from the detailed records listed above. Aspects of the narrative which include records for nymphs or eggs are marked '(n)' or '(e)', respectively. Those that include winter records (which I define as 1st January to 31st March) are marked '(w)'. Habitus photographs of the species are included, where available.

***Acalypta brunnea* (Germar) (Tingidae)**

*Common name.* The Oak Moss Lacebug.

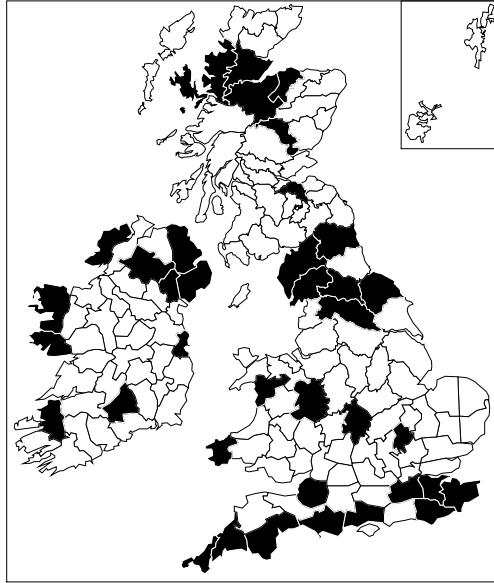
*First report.* D&S1865 as *Orthostira concinna*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from moss; specifically on a mossy stump, amongst moss on oak trees (n), and brushed from moss on an oak trunk.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						1
August						
September			1			
October						
November						
December						

No habitus images are available.

***Acalypta carinata* (Panzer) (Tingidae)**

*Common name.* The Woodland Moss Lacebug.

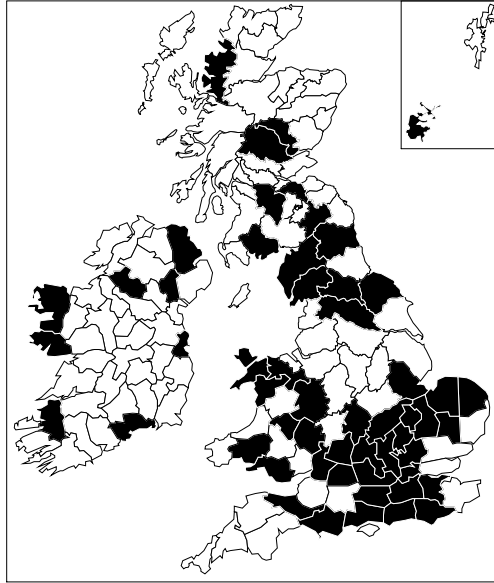
*First report.* D&S1865 as *Orthostira cervina*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sand-pit, chalk-pit, woodland edge, edge of a ride, woodland floor (n), mountains, under bushes on a bank, and chalk grassland; specifically from moss, including *Mnium*. It has been taken suction sampling (n), and in the gizzard of a Great Tit.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May		1	1	3	1	1 N
June		1	2	3	1	2
July		1		1		
August	1					
September			1			
October		1				
November						
December						



*Acalypta nigrina* (Fallén) (Tingidae)

*Common name.* The Upland Moss Lacebug.

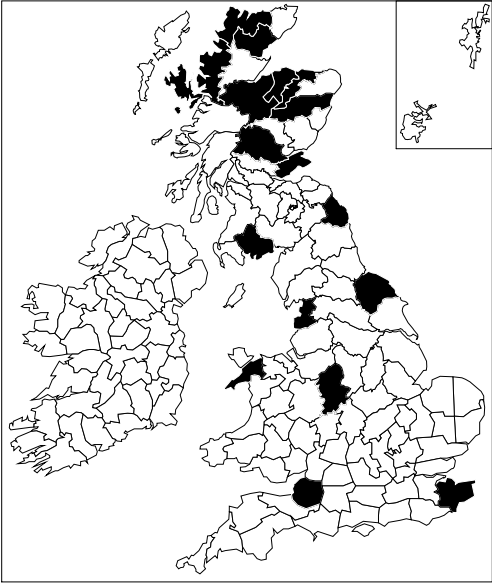
*First report.* EMM11:173-174 as *Orthostira macrophthalma*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from moorland, pine woods, *Nardus* grassland, a rock beneath a procumbent juniper at 2600 ft, near boulders set in peat at 1000 ft, and *Rhacomitrium-Empetrum* heath at 1500 ft; specifically from moss (n) (including *Rhacomitrium*), litter, and under a stone. It has been taken in a pitfall trap, and suction sampling (n).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July		1	1		1	
August						
September			N			
October						
November						
December						



***Acalypta parvula* (Fallén) (Tingidae)**

**Common name.** The Common Moss Lacebug.

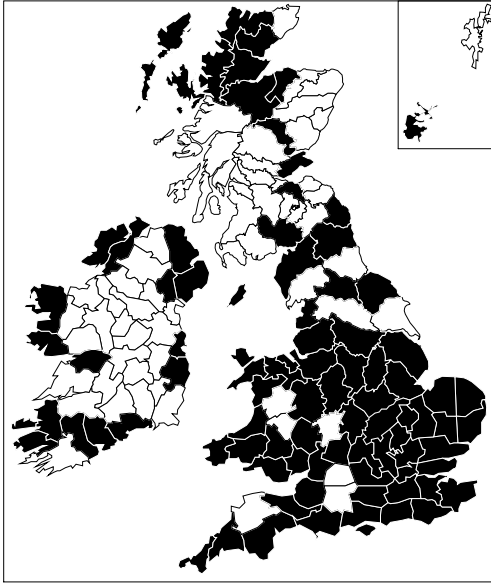
**First report.** D&S1865 as *Orthostira obscura*.

**Ambiguities.** None reported.

**Geographical distribution.** See vice-county map opposite.

**Seasonal distribution.** See heximonth calendar opposite.

**Other details.** Reported from chalk grassland (w), moorland (n), waste plot, rocks, chalk pit, lane, road verge, edge of a quarry top (w), roadside mossy bank under tree cover (n), woodland edge, concrete wall, post-industrial site, sandpit, meadow, sandhills, tree-stumps, grass heath, naturally vegetated derelict land, ericaceous heath, acid grassland, ballast pit, sea cliff, and cindery-clay substrate; specifically from moss (w, n) (including *Pseudoscleropodium purum* (n), *Rhytidadelphus triquetrus* (n), *Rhytidadelphus squarrosus* (n), *Homalothecium sericeum* (n) and *Syntrichia ruralis* (n)), stonecrop, roots of grass, and rough herbage. It has been taken by sweeping, beating vegetation clumps, suction sampling (w, n), grubbing, in a pitfall trap, under stones, under dry marine rejectamenta, on the underside of pieces of driftwood lying on a dense sward of thrift, in the nest of a short-tailed vole (w), and in the gizzard of a Blue Tit. In culture, the bugs laid eggs in the leaves of *Pseudoscleropodium purum* and *Rhytidadelphus triquetrus*, and in the stems of the latter. Most eggs were laid in the leaves of fescue grass that were also in the incubation. Eggs were also laid in the stems of garden grass added to the culture. Feeding on fescue and garden grass was seen. One study stated that the bug was obtained suction sampling in open places where moss grows, on downs, commons and heaths, and in quarries and derelict areas. Also in woods where moss grows along the edges of wide, well-lit rides. The nymphs of the bug have been collected in large numbers in June and July, with smaller numbers in August. The new adults first appear in July, and reach their peak numbers in August and September. In early spring, no nymphs have been found, and only small numbers of adults have been collected, in contrast with the large numbers at the end of the previous summer. These observations suggest that the insect has a single generation each year and overwinters principally as the egg. The species of moss encountered most commonly with the bug are *Pseudoscleropodium purum*, *Rhytidadelphus squarrosus* and *Rhytidadelphus triquetrus* on the sand or chalk of downs, commons and quarries; and *Syntrichia ruralis* and *Homalothecium sericeum* in derelict areas, growing on concrete and other hard-standing. Where these plants are sampled as pure stands, each has yielded both adults and nymphs of the bug, and the bugs have been kept alive in captivity on these species of moss. All five of these mosses can therefore be regarded as hosts for the bug. The bug cannot thrive on any species of moss. Attempts to rear it on the common woodland acrocarp mosses *Polytrichastrum formosum* and *Mnium hornum* failed to keep the bugs alive for more than a week or two. Captured nymphs reared through to adult resulted in 4.4% (13 of 298) macropters, the remainder brachypters. The percentage of macropters taken suction sampling is much less than this, which is to be expected given that they are capable of flying from the moss. The brachypters are found in roughly equal numbers of males and females, either by suction sampling or when reared. Macropters also appear to occur with approximately equal numbers of both sexes. Pooling the specimens taken by sweeping, suction sampling and rearing gives 20 females and 19 males.



	1-5	6-10	11-15	16-20	21-25	26-
January		1	1			
February					2	
March		2		1	4	
April	2	1	1			
May				1	1	1
June	1	N		1		
July		1 N	N	2	1	2
August	1	4 N	1	4	3	6
September	7	4	11	2	8	3
October	3	1	2	2		2
November			1		2	
December				2		



***Acalypta platycheila* (Fieber) (Tingidae)**

*Common name.* The Scarce Moss Lacebug.

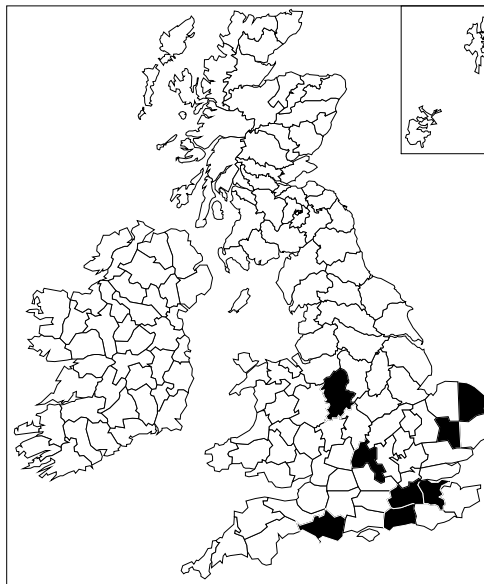
*First report.* EMM53:251-252 as *Acalypta platychila*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from suction-sampling grassland, sweeping, and resting on main road.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May			2		1	1
June				1	1	
July		1				
August						
September						
October						
November						
December						

No habitus images are available.

***Agramma laetum* (Fallén) (Tingidae)**

*Common name.* The Matchstick Lacebug.

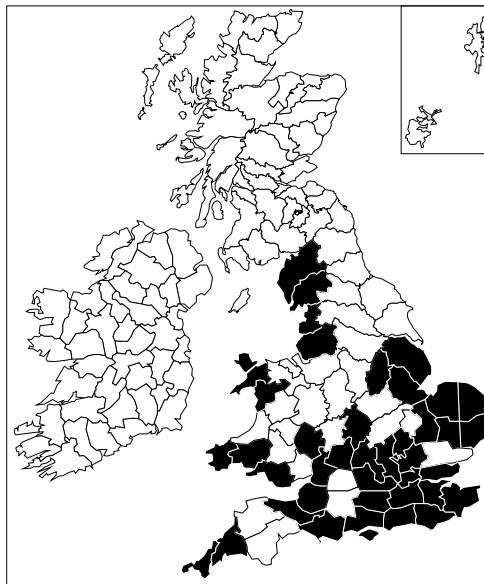
*First report.* D&S1865 as *Agramma laeta*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from chalk grassland (w), dune slacks, near a pond, salt marsh, grass heath, mudflats below a seawall, old limestone quarry, chalky bank on downs, naturally vegetated derelict land, and damp path in a wood; specifically from grass, sedges, moss, dry litter, and among stones. It has been taken sweeping, suction sampling (w), and in a pitfall trap. In culture with Field Woodrush (*Luzula campestris*) and Sweet Vernal grass (*Anthoxanthum odoratus*), taken from the site of capture, feeding occurred on both plants, but egg-laying was restricted to the former. Eggs were inserted within the tissue of the leaf, from both sides, and in the stem. Glaucous Sedge (*Carex flacca*), Common Yellow Sedge (*Carex demissa*) and garden grass were added to the culture. Feeding and egg-laying occurred on all three, but Woodrush remained the preferred host for egg-laying.



	1-5	6-10	11-15	16-20	21-25	26-
January		1				
February						
March					2	
April				1		
May				3	1	2
June	1	1	1	5		
July	1				1	1
August	1	1	1			1
September	2		3		1	
October	1	1				
November			1			
December						



*Campylosteira verna* (Fallén) (Tingidae)

*Common name.* The Down Lacebug.

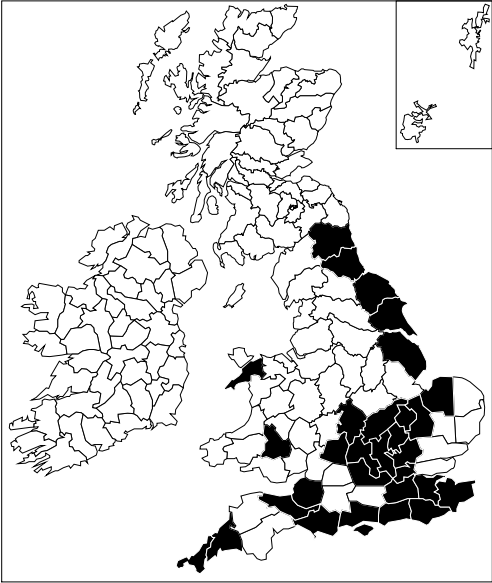
*First report.* D&S1865 as *Campylostira brachycera* and *Campylostira verna*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from limestone scree, chalk quarry, chalk wolds, chalk grassland (w), sandpit, and sandhills; specifically from moss (w) (including *Pseudoscleropodium purum* (n)), at roots of thyme, leaf mould, undersides of rocks resting on soil in arable fields, and under stones on almost bare chalk. It has been taken suction sampling, and in a pitfall trap. In culture, incubation with *Pseudoscleropodium purum* alone led to death in 4-5 days. Incubations including other plants of the turf were more successful, with feeding seen on grass and other plants.



	1-5	6-10	11-15	16-20	21-25	26-
January		1				
February	1					1
March			1		3	
April	2	1	1	2	2	
May					1	1
June			1	1		
July	1		1 N		1	
August				2		1
September	1	1			1	
October	1	2				1
November			1			
December				1		1



***Catoplatus fabricii* (Stål) (Tingidae)**

*Common name.* The Oxeye Lacebug.

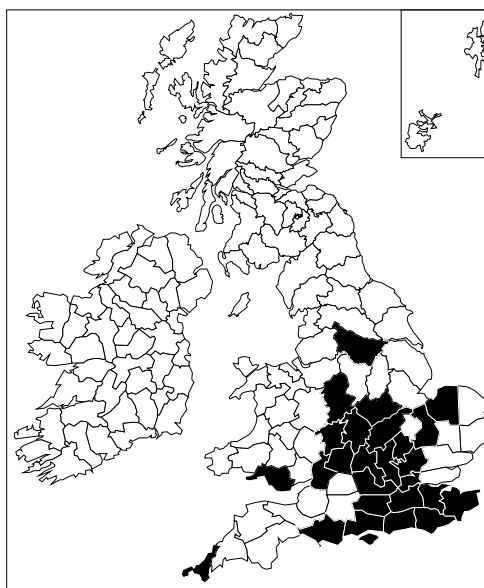
*First report.* D&S1865 as *Monanthia costata*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from chalk grassland (w), quarry, railway bank, neutral grassland, grassy heathland, and cindery ground; specifically from moss (n), ox-eye daisy, and aquatic plants. It has been taken sweeping, at the roots of plants, and suction sampling (w, n). A study reported the bug from open areas on chalk, limestone, sand or gravel with Oxeye Daisy (*Leucanthemum vulgare*). Several attempts at keeping adults and nymphs alive on the moss from which they came all failed, the cultures lasting no more than a week with no feeding being observed. In contrast, parallel cultures on ox-eye daisy were much more successful, with feeding taking place. This suggests that moss, by itself, is not a pabulum for the insect.



	1-5	6-10	11-15	16-20	21-25	26-
January		1	1			
February						
March						
April		1	1	1		
May	1		1	2	2	3
June	2	3	1	2	4	3 N
July	1 N		2	N	N	2
August	1 N	1	1 N	2	1	
September		2 N	1	2	1	1
October		1	1			
November						
December						



***Corythucha ciliata* (Say) (Tingidae)**

*Common name.* The Plane Lacebug.

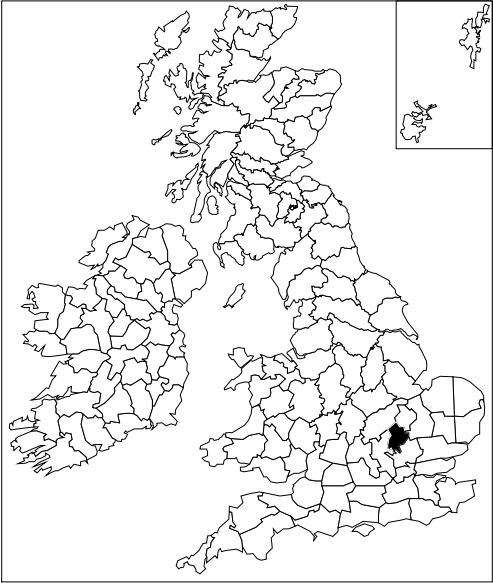
*First report.* BJENH20:233-240 as *Corythucha ciliata*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from plane trees in a hedge outside a commercial plant nursery.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						
August						
September						
October		1				
November						
December						

No habitus images are available.

***Derephysia foliacea* (Fallén) (Tingidae)**

*Common name.* The Ivy Lacebug.

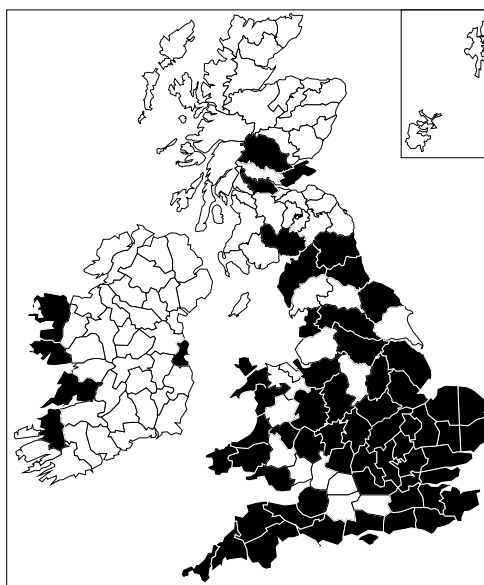
*First report.* D&S1865 as *Derephysia foliacea*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from garden, salt marsh, concrete wall, housewall, roadside verge, lane, woodland, chalk ridge at 500 ft, and shingle beach; specifically from ivy (including on oak trunks, garden wall, rocks, palings, and low stone walls), moss (n), ox-eye daisy, cherry tree, *Chenopodium*, grasses, and ash. It has been taken sweeping, beating, in a suction trap, under a stone, and in a dead rabbit. Seen flying and settling on hawthorn leaf.



	1-5	6-10	11-15	16-20	21-25	26-
January					1	
February						
March		1				
April						
May						
June						
July	2		2	5	2	4
August	5	6	7	9	4	4
September		2	2 N	3	1	
October		2	1	1		
November						
December						

No habitus images are available.

***Dictyla convergens* (Herrich-Schaeffer) (Tingidae)**

*Common name.* The Marsh Lacebug.

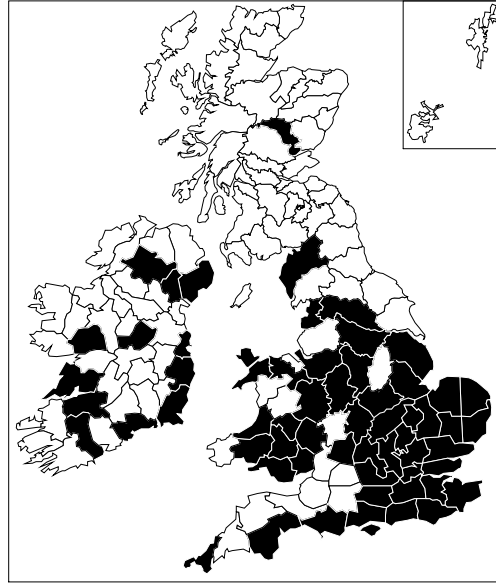
*First report.* D&S1865 as *Monanthia Humuli*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from banks of a river, damp places, brownfield site, a drain, ditches, moist meadow (n), riverside (n), derelict drystone wall by small stream, and water meadow; specifically from Water Forget-me-not (*Myosotis scorpioides*), and tufts of grass. It has been taken sweeping (n) and under stone. In culture, eggs were laid in the tissue of the stems, leaves and flower heads of Water Forget-me-not.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April				1		
May			1	1	3	3
June	2	1	1	2	1	
July			1	4 N	1	1
August	1 N	1		2	1	
September	1	1	2			1
October						
November						
December						



***Dictyonota fuliginosa* A. Costa (Tingidae)**

*Common name.* The Broom Lacebug.

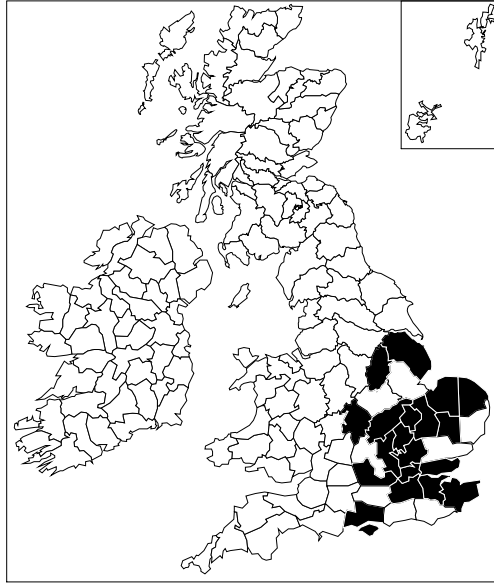
*First report.* EMM4:238-246 as *Dictyonota Fieberi*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from rough hillside; specifically from broom (n), and furze. It has been taken beating and sweeping. Males seen in copula with female *D. strichnocera*. In culture it was preyed upon by the mite *Anystis agilis*.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						1
March						
April						
May						
June						N
July	N	1	2	4	1	5
August	1	2	2			
September	1	1			1	
October						
November						
December						



***Dictyonota strichnocera* Fieber (Tingidae)**

*Common name.* The Gorse Lacebug.

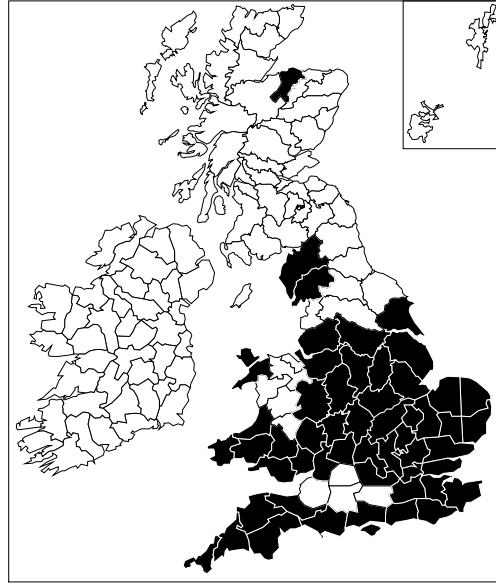
*First report.* D&S1865 as *Dictyonota strichnocera*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from plantation, hedge, gorse heath (n), gravel pit, roadside, lane, and grassy heathland; specifically from gorse, broom, moss, firs and pines, mullein, and heather. It has been taken sweeping and beating. Females seen in copula with male *D. fuliginosa*.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June				1	2 N	1
July		3 N	4 N	4	2	6
August	2	2	2	4	2	4
September	3	1	2		2	
October						
November						
December						



***Kalama tricornis* (Schrank) (Tingidae)**

*Common name.* The Solitary Lacebug.

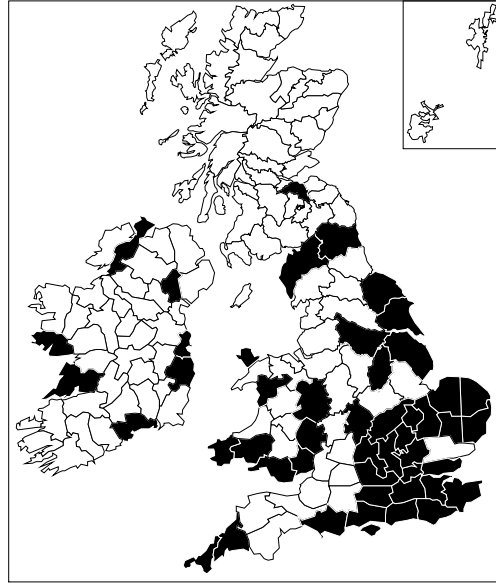
*First report.* D&S1865 as *Dictyonota crassicornis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from chalk grassland, woodland edge, woodland ride, meadow, sandhills, saltmarsh, sand pit, chalk pit, gravel pit, grass heath, sandpits, sheep-grazed herb-rich grassland, sparse sward of pasture, brownfield site, waste land, and wind-blown sand grassland; specifically from *Sedum acre*, black medick, dead *Rumex* leaves, and under stones. It has been taken sweeping, suction sampling, grubbing, at the roots of plants, under a stone over a nest of *A. (C.) flavus* (n), on bare ground in a pit, in nests of *Myrmica rubra*, in a pitfall trap, in rock crevices, beating pine, in a Tullgren funnel from mixed herbage and roots taken from a down-like slope, and on a parking area made from compacted limestone rubble with scattered vegetation.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May					1	
June	1	1	1	2	4	1
July		3 N		2	1	1
August	2	1	2	2		6
September	1	1	2	1		
October	1					
November						
December						



***Lasiacantha capucina* (Germar) (Tingidae)**

*Common name.* The Thyme Lacebug.

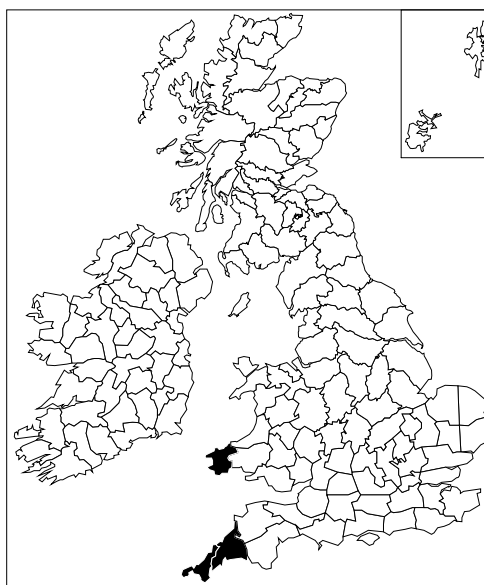
*First report.* EMM55:203-204 as *Lasiacantha capucina*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from cliffs, coastal grassland, coastal heath, herb-rich grassland, grass heath, and boulder on downs; specifically from thyme, and heath. It has been taken sweeping, brushing, and at the roots of plants. Adults seen on thyme foliage in hot sunshine.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						1
April				1		
May	1		1	1	5	3
June		3	2	1		
July	1	1	2		1	
August						
September				1	1	
October	1					2
November						
December						

No habitus images are available.

***Oncochila simplex* (Herrich-Schaeffer) (Tingidae)**

*Common name.* The Spurge Lacebug.

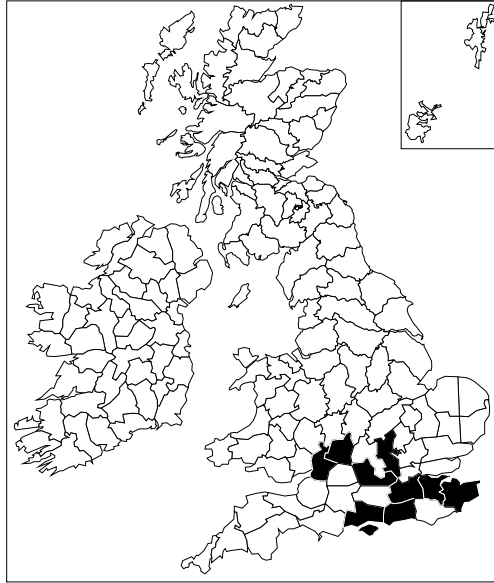
*First report.* D&S1865 as *Monanthia simplex*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from a wood; specifically from wood spurge, and sea spurge. It has been taken sweeping and at the base of plants.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June	2					
July						
August	1					
September		1				
October						
November						
December						

No habitus images are available.

***Physatocheila dumetorum* (Herrich-Schaeffer) (Tingidae)**

*Common name.* The Hawthorn Lacebug.

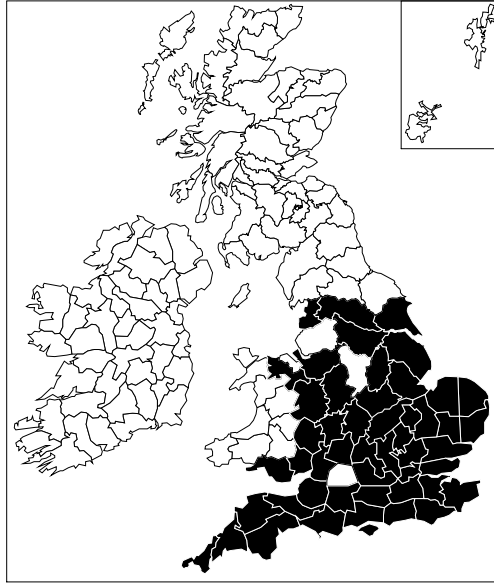
*First report.* D&S1865 as *Monanthia dumetorum*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from hedge, wood subjected to considerable felling and clearance, coast (n), windswept thicket, and streamside; specifically from hawthorn, blackthorn, larch, sloe (n), hazel, whitethorns, and lichen-covered examples of aforementioned shrubs (n). It has been taken beating, from hawthorn flowers, and sweeping rough grassland and tall herb at the edge of a wood.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February					1	
March						
April			2	1		1
May	1		2	1	1	2
June	2	2				
July				1	1	2
August	4	4	4	3	1	5
September		3	3		2	
October		1				
November						
December						



***Physatocheila harwoodi* China (Tingidae)**

*Common name.* The Maple Lacebug.

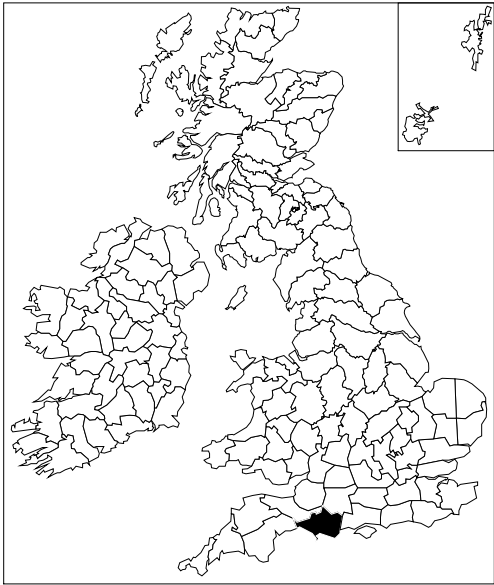
*First report.* EMM72:270-272 as *Physatocheila harwoodi*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from old lichen-covered maples.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						
August						
September	1					
October						
November						
December						

No habitus images are available.

***Physatocheila smreczynskii* China (Tingidae)**

*Common name.* The Apple Lacebug.

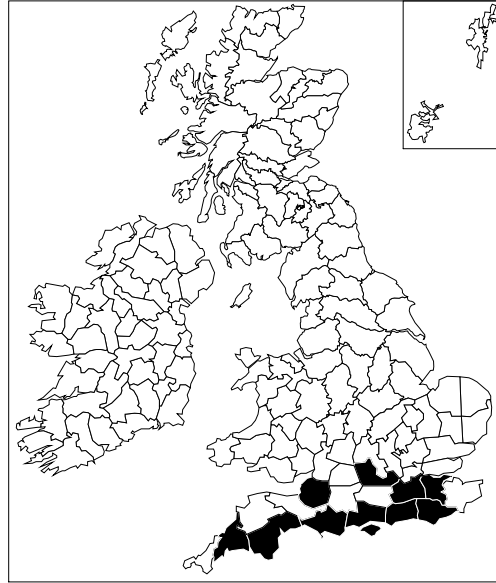
*First report.* D&S1865 as *Monanthia quadrimaculata*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from orchard; specifically from apple tree, crab apple tree, and lichen-covered examples of these plants. It has been taken beating, and sweeping a woodland ride.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April		1				
May			1	1		
June	1					
July	1			1		
August					1	1
September				1		
October						
November						
December						

No habitus images are available.

***Stephanitis rhododendri* Horváth (Tingidae)**

*Common name.* The Rhododendron Lacebug.

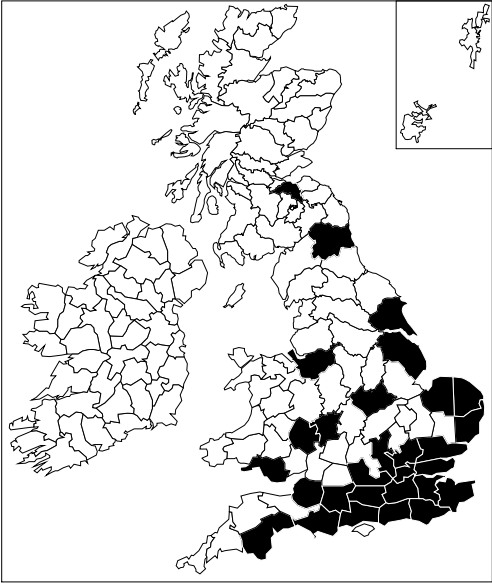
*First report.* EMM52:207-208 as *Stephanitis rhododendri*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from parks and gardens; specifically from rhododendrons, climbing rose, and *Pyrus*. It has been taken beating and sweeping. One study stated that the presence of the bug was indicated by whitish mottling and/or rust-coloured leaves on the rhododendron plant. It favours well-lighted positions, the southern and western sides of infested rhododendrons are preferred to the northern and eastern aspects. Plants growing in shade and in the cool atmosphere of woodland are rarely troubled from attacks by the bug, and attempts to grow rhododendrons in open sunny positions are liable to result in severe infestations. The series of rhododendron particularly susceptible to attack are *Arboreum*, *Campanulatum*, *Ponticum* and *Thomsonii*.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July		N	1	1	1	2
August	1	2		1	1	
September		1		1		
October				1		
November						
December						

No habitus images are available.

***Stephanitis takeyai* Drake & Maa (Tingidae)**

*Common name.* The Andromeda Lacebug.

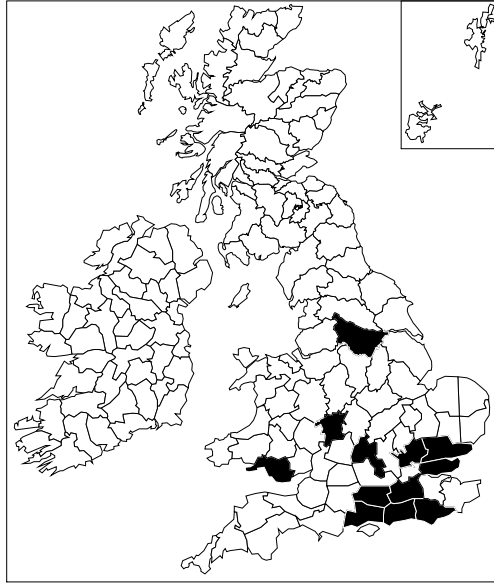
*First report.* BJENH16:3-6 as *Stephanitis takeyai*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from garden; specifically from *Pieris japonica*, and rhododendrons. It has been taken beating box (*Buxus sempervirens*), on a shoe in a school playground, and sweeping low vegetation around the edge of a car park. Reported feeding on *Pieris japonica*, *P. formosa*, *Agarista populifolia* and *Rhododendron*. On *Pieris japonica*, eggs were found inserted into the leaf lamina, usually near the central vein on the lower surface (w).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June			1			
July		1				
August				2	1	
September						
October			1	1		
November						
December						



***Tingis ampliata* (Herrich-Schaeffer) (Tingidae)**

*Common name.* The Creeping Thistle Lacebug.

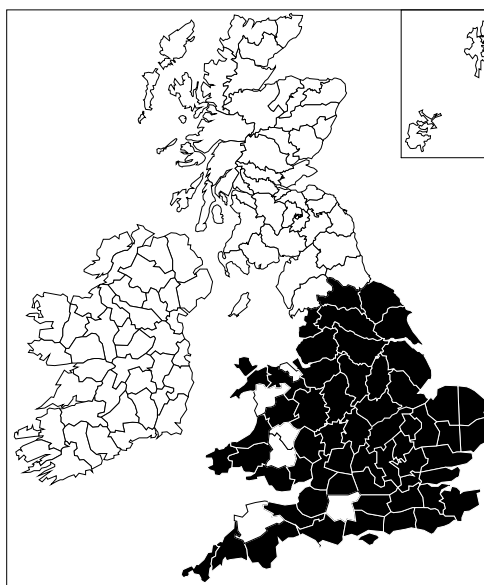
*First report.* D&S1865 as *Monanthia ampliata*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from waste land (n, e), sandhills, grassland, marshy ground near a stream, by ponds, clearing on sandy heath, tip, motorway verge, old blackcurrent plantation, gravel pit, bombed sites, and patch of rough ground in a garden; specifically from Creeping Thistle (*Cirsium arvense*) (n, e), spear thistle (*Cirsium vulgare*), marsh herbage, gorse, grass litter (w, n), and at roots of grass. It has been taken sweeping, suction sampling, under rubbish, beating potato haulms, and on a blanket drying on a washing line. Eggs seen imbedded in thistle stems. Eggs seen parasitised by a Mymarid of the genus *Anaphes*. Seen as prey of a spider (*Xysticus viaticus*).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February				1	2	1
March	1		3 N		1	
April	1			1	2	2
May	2	3	7	4	5	8
June	8 E	5	5	11	4	3
July	4	3	3	4	6 E	3 N
August	1 N	4 N	2 N	2 N	1	2 N
September	3 N	3 N		1 N		
October	2 N	2	1	1	1	1
November		1				
December						



***Tingis angustata* (Herrich-Schaeffer) (Tingidae)**

*Common name.* The Scarce Lacebug.

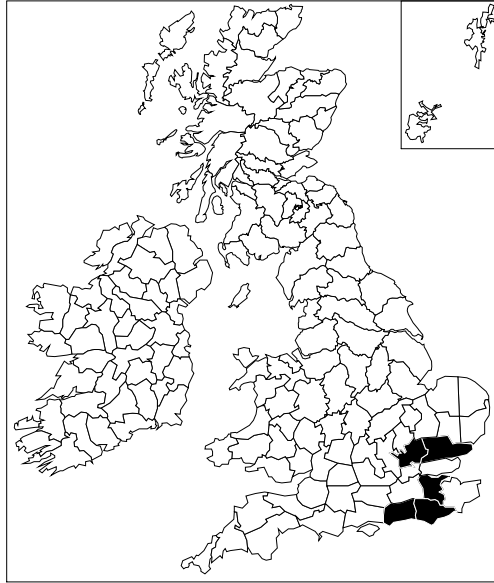
*First report.* EMM25:34-35 as *Monanthia angustata*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sweeping, on one occasion at the side of a footpath in a wood, and in sacking in a cultivated apple plantation.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May	1					
June						
July						
August						
September						
October						
November						
December						

No habitus images are available.

***Tingis cardui* (Linnaeus) (Tingidae)**

*Common name.* The Spear Thistle Lacebug.

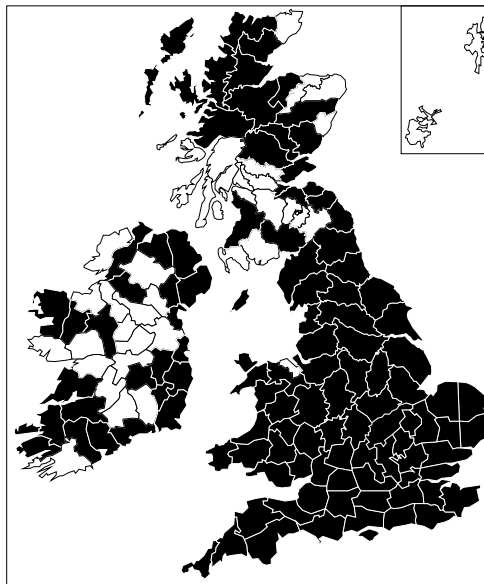
*First report.* D&S1865 as *Monanthia cardui*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from demolition site, hedge, sheep-grazed upland pasture, arable fields, by roadside, sand dunes (n), waste land (n), edge of a bog (n), grassland, wood, patch of rough ground in a garden, flowery meadow on chalk, mudflats below a seawall, and by a canal (n); specifically from Spear Thistle (*Cirsium vulgare*) (n), Marsh Thistle (*Cirsium palustre*), cultivated raspberries, larch, and grass. It has been taken sweeping, in a suction trap, beating *Pinus*, in hollow stems of dead *Heracleum sphondylium* (w), and on a blanket drying on a washing line. Seen attached to thistle seeds carried away by the wind. A study reported the bug mostly on the involucre of the thistle, or just below. Eggs were laid in leaves adjacent to the involucre on either side of the midrib, upper or lower surface, usually near the tip. The emerged nymph crawls to the flowering head.



	1-5	6-10	11-15	16-20	21-25	26-
January			1			
February					1	1
March	2					
April		1	1	1		1
May	3	3	7	5	2	5
June	4	5	3	2	3	2
July	3	2	2	5 N	3 N	
August	3	2	1	5 N	3	5 N
September	1		3 N	2	1	1
October					1	
November					1	
December						



***Tingis reticulata* Herrich-Schaeffer (Tingidae)**

*Common name.* The Bugle Lacebug.

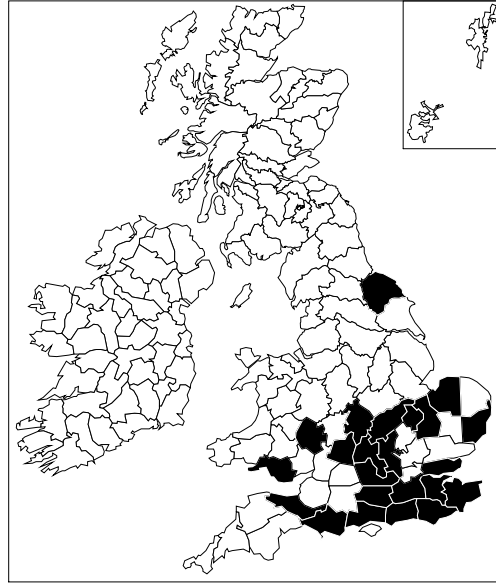
*First report.* D&S1865 as *Monanthia reticulata*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sparsely-vegetated clearing, hedge bottom, spoil heaps, and along a woodland edge; specifically from bugle (*Ajuga reptans*) (e), moss, grass roots, *Verbascum nigrum*, and dried-up leaves of Mullein (*Verbascum thapsus*). It has been taken sweeping and suction sampling.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April				1	1	
May		2		4	1	
June	1	2			1	
July					1	
August	1	1			1	
September	1			2		
October	1			1		
November					1	
December						



## A REVIEW OF THE PUBLISHED RECORDS FOR THE HEMIPTERA-HETEROPTERA OF THE BRITISH ISLES: (17) THE FAMILY REDUVIIDAE

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### Introduction

This is the seventeenth part of the review of the records of Hemiptera-Heteroptera in the British Isles published in the specialist entomological literature, which covers the Reduviidae, up to the end of 2019. The scope, objectives and method of this work are set out in the Introduction (first part) of the review (Hem7:1-5). The vice-county records for the bugs have already been presented elsewhere in this journal, and are summarised in the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The remaining results of the review are given below, which are limited to records explicitly stated as being from the British Isles. These results comprise a list of all the heximonth records, that is records dated with sufficient precision to be assigned to a specific heximonth (Hem5:52-68); and a list of all the detailed records, that is, records that are not limited to date and location and refer to other aspects of the species' natural history. Duplicate records, the same record published in different articles, are excluded, with only the original record included. There is also a complete bibliography of all the references consulted in this part of the review. These are grouped by the names used in the literature, and thereby provide a synonymy for each species, for those sources listed in the Introduction. There is no reference list, instead references are cited in-line using the method of abbreviation described in the Introduction. Records which refer to ambiguous species names (Hem2:4-8, Hem3:15-17, Hem5:14-15 & Hem5:114-118) are listed separately, under a heading marked 'AMBIGUOUS'. The article is concluded with a tabulated summary of the results of the review, which excludes ambiguous records.

What is not stated in this review (the 'gaps') is arguably just as important as what is stated, which hopefully will provide an impetus to future research on the Hemiptera-Heteroptera in these islands. Consequently, I would be grateful to hear from any reader who has information which is new to that collected in this review, and who would be willing to publish it.

### Heximonth records

*Coranus aethiops* Jakovlev (Reduviidae)

09D: 20 September 1979 [Thorne Moor, South Yorkshire. Female brachypter. BJENH26:185-186]

*Coranus subapterus* (De Geer) (Reduviidae)

08B: 8 August 2015 [Felmingham cutting, East Norfolk. Hem4:41]

08F: 31 August 2010 [Thursley Common, Surrey. Hem1:23]

10B: 8 October 2015 [Whixall Moss, Shropshire. HN23:11]

*Coranus subapterus/woodroffei/aethiops* AMBIGUOUS (Reduviidae)

06B: 10 June 1956 [Ligger Point, Penhale Sands, Cornwall. Nymphs. CornwallHets]

06D: 19 June 1987 [Whitesand Bay, Land's End, Cornwall. CornwallHets]

06E: 21 June 2010 [Greenham Common, Newbury, Berkshire. Nymph. Hem1:23] 22 June 1993 [The Main, Port Gaverne, Cornwall. CornwallHets]

06F: 27 June 1924 [Bournemouth. Nymph. EMM60:265-268] 30 June 1951 [Oxshott. Nymph. PTSLENHS1951-52:73-74]

07A: 3 July 2010 [Greenham Common, Newbury, Berkshire. Nymph. Hem1:23]

07C: 12 July 1952 [Oxshott Heath and Esher Common. PTSLENHS1952-53:83-84]

07D: 17 July 1944 [South Rodborough, Gloucestershire. GloucsHets]

07E: 24 July 1929 [Horsell Common, Surrey. Male. LondonHets] 22 July 1950 [Oxshott Station, Surrey. PTSLENHS1950-51:74-75]

- 07F: 31 July 1929 [Farley Heath, Surrey. Female. LondonHets] 26 July 1952 [Hounslow Heath, Middlesex. Female macropter. Ent86:34-40] 28 July 1947 [Lower Quarries, Rodborough, Gloucestershire. GloucsHets] 29 July 1935 [New Forest. Female macropter. EMM87:242-244] 27 July 1964 [Oxshott Heath, Surrey. Adult. LondonHets] 28 July 1957 [Oxshott Heath, Surrey. LondonHets] 27 July 1944 [Rodborough Hill, Gloucestershire. A pair in copula. ERJV57:33-34]
- 08A: 5 August 1937 [Mildenhall, Suffolk. Female macropter. EMM87:242-244] 5 August 1901 [West Walton, Norfolk. EMM38:80]
- 08B: 7 August 1943 [Above King's Court, Rodborough, Gloucestershire. EMM80:18-19] 7 August 1882 [Camber sandhills. EMM19:117] 7 August 1911 [Horsell Common, Surrey. Female. LondonHets] 10 August 1916 [Horsell, Surrey. Male macropter. EMM87:242-244] 9 August 1944 [Lower Quarries, Rodborough, Gloucestershire. GloucsHets]
- 08C: 11 August 1899 [Wisley Common, Surrey. LondonHets]
- 08D: 17 August 1947 [Camberley, Surrey. Female macropter. EMM87:242-244] 20 August 2005 [Cornwall. CornwallHets] 19 August 1934 [Freckenham, Suffolk. Male and female macropters. EMM87:242-244] 17 August 1985 [Newborough Warren, Anglesey. HSGN6:3] 19 August 1934 [Worlington/Breckenham, Suffolk. EMM71:113-114]
- 08E: 25 August 1956 [Stoke Common, Fulmer, Buckinghamshire. LondonHets]
- 08F: 27 August 1900 [Lakenheath Warren, Suffolk. EMM36:288-289] 31 August 1952 [Near Slough. EMM89:2] 29 August 1949 [New Forest. Male and female macropters. EMM87:242-244] 30 August 1930 [On the Quantock Hills, above Crowcombe, Somerset. EMM67:94] 30 August 1902 [Oxshott Heath, Surrey. LondonHets] 27 August 1944 [Rodborough Hill, Gloucestershire. Female. ERJV57:33-34]
- 09A: 4 September 1949 [Ash Vale, Surrey. PTSLENHS1949-50:78] 2 September 1938 [Broadhaven, Pembrokeshire. Male macropter. EMM87:242-244] 5 September 1965 [Dungeness, Kent. PTSLENHS1965:91] 2 September 1950 [Oxshott, Surrey. PTSLENHS1950-51:78-79] 5 September 1923 [St George's Down, Isle of Wight. EMM60:117-118]
- 09B: 10 September 1950 [Ash Vale, Surrey. Female macropter in copula with male brachypter. EMM87:242-244] 7 September 1933 [St Johns, Woking, Surrey. LondonHets] 7 September 1937 [Studland, Dorset. Male macropter. EMM87:242-244]
- 09C: 13 September 1903 [Headley Lane, Surrey. LondonHets] 11 September 1897 [Oxshott. EMM34:13-15] 15 September 1963 [Oxshott Heath, Surrey. Adult. LondonHets] 15 September 1960 [Oxshott Heath, Surrey. LondonHets] 15 September 2007 [Sand Pit, Horsell Common, near Woking, Surrey. BJENH21:184] 11 September 2009 [Snettisham RSPB Reserve, West Norfolk. HN15:13]
- 09D: 20 September 1876 [Bournemouth. EMM69:234-245] 19 September 1963 [Esher Common, Surrey. Adult. LondonHets] 17 September 1941 [Lower Quarries, Rodborough, near Stroud, Gloucestershire. EMM80:18-19] 16 September 1950 [Oxshott Heath, Surrey. LondonHets]
- 09E: 21 September 1919 [Otford, Kent. Female. LondonHets]
- 09F: 30 September 1964 [Cliffs north of Whitesand Bay, Cornwall. EMM102:67-69] 28 September 1902 [Oxshott Heath, Surrey. Male. LondonHets]
- 10A: 4 October 1830 [Christchurch, Hampshire. Adult male macropter. EMM87:242-244] 2 October 1944 [Rodborough Hill, Gloucestershire. ERJV57:33-34] 3 October 1912 [Woking, Surrey. LondonHets] 2 October 1913 [Woking, Surrey. LondonHets]
- 10B: 10 October 1909 [Boxhill, Surrey. Male. LondonHets]

*Coranus woodroffei* P.V. Putshkov (Reduviidae)

- 07C: 13 July 2013 [Ramparts Field, West Suffolk. Hem3:105]
- 08D: 19 August 2012 [Witley Common, Surrey. Hem1:23]
- 08E: 22 August 2010 [Thursley Common, Surrey. Hem1:23]
- 08F: 31 August 2010 [Thursley Common, Surrey. Hem1:23] 27 August 2010 [Witley Common, Surrey. Hem1:23]
- 09A: 5 September 2015 [Burnham Overy Staithe, West Norfolk. Hem4:41]
- 09C: 13 September 2010 [Denny Wood, New Forest. Hem3:105]
- 09F: 29 September 2013 [Holt Lowes, East Norfolk. Hem4:41]

*Empicoris baerensprungi* (Dohrn) (Reduviidae)

- 06C: 12 June 2003 [Snelsmore Common, Berkshire. HN3:6] 12 June 2003 [Toddington Manor, Gloucestershire. Male. BJENH17:76]  
 06D: 17 June 2007 [Kings Wood (Heath and Reach), Bedfordshire. HN11:15] 16 June 1916 [Thame Park, Oxfordshire. Male. EMM53:182-183]  
 06F: 29 June 2000 [Castle Bottom NNR, North Hampshire. EMM137:231-232]  
 07B: 6 July 2013 [Lincoln, VC53. Hem3:86]  
 08A: 4 August 2007 [Folly Wood (Flitwick Moor), Bedfordshire. HN11:15]  
 08F: 30 August 1874 [Esher. EMM34:217-218]

*Empicoris culiciformis* (De Geer) (Reduviidae)

- 01B: 9 January 1947 [Boxmoor, Hertfordshire. EMM83:104] 6 January 1950 [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. LondonHets]  
 01D: 20 January 1948 [Finchley, Middlesex. EMM85:91] 16 January 1951 [Little Chalfont, Buckinghamshire. LondonHets]  
 02E: 21 February 1957 [Little Chalfont, Buckinghamshire. LondonHets]  
 03F: 31 March 1978 [Hoddesdon, Hertfordshire. Nymph reared to adult (on 1 October 1978). LondonHets]  
 04B: 10 April 1949 [Canvey Island, Essex. LondonHets]  
 04F: 27 April 1953 [Gloucester, Gloucestershire. GloucsHets]  
 05C: 11 May 1912 [Abinger Hammer, Surrey. LondonHets]  
 05D: 20 May 1874 [G. Wootton. EMM69:234-245]  
 05E: 25 May 1922 [Westerham, Kent. LondonHets]  
 05F: 28 May 2005 [Market Rasen, Woodgrove, VC54. Hem3:86] 27(29) May 1919 [Poyntzpass, Armagh. ERJV105:49-52]  
 06C: 12 June 1952 [Amersham, Buckinghamshire. LondonHets]  
 06D: 19 June 1955 [Aberystwyth, Cardigan. Male. EMM92:54-64] 18 June 1932 [Mayfield, Dublin. ERJV105:49-52]  
 06E: 24 June 1957 [Little Chalfont, Buckinghamshire. LondonHets]  
 07A: 4 July 1944 [Cliffordine, Gloucestershire. GloucsHets] 3 July 1952 [George Street, Edinburgh. HN15:10]  
 07B: 10 July 1951 [Near Stratford Tony, Salisbury, Wiltshire. Adult. EMM87:274]  
 07D: 17 July 1937 [Westcott, Surrey. LondonHets]  
 07F: 30 July 1943 [Harold's Cross, Dublin. ERJV105:49-52]  
 08B: 10 August 1950 [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. LondonHets]  
 08D: 17 August 1934 [Uxbridge, Middlesex. Ent71:148-153]  
 08E: 23 August 1950 [Datchet, Buckinghamshire. LondonHets] 25 August 1942 [Sharpness, Gloucestershire. GloucsHets]  
 08F: 28 August 1935 [Uxbridge, Middlesex. Ent71:148-153] 28 August 1926 [Wilmslow, Cheshire. Female. EMM62:265-266]  
 09C: 15 September 1947 [Finchley, Middlesex. EMM85:91] 12 September 1950 [Hale End, Epping Forest, Essex. LondonHets] 13 September 1999 [Twyford, South Hampshire. EMM137:231-232] 12 September 1949 [Watford, Hertfordshire. LondonHets]  
 09D: 16 September 1923 [Kegworth, Leicestershire. EMM60:64] 20 September 1954 [Little Chalfont, Buckinghamshire. LondonHets]  
 09F: 26 September 1983 [London, W1. PTBENHS17:18-19] 29 September 1950 [Regent's Park, Middlesex. LondonHets]  
 10A: 5 October 1937 [Heston, Middlesex. LondonHets]  
 10C: 13 October 1936 [Westcott, Surrey. LondonHets]  
 11A: 4 November 1924 [Hammersmith, Middlesex. LondonHets]  
 11B: 8 November 1955 [Datchet, Buckinghamshire. LondonHets]  
 12D: 20 December 1947 [Finchley, Middlesex. EMM85:91] 18 December 1902 [Redland, Bristol. EMM39:123-124]

*Empicoris vagabundus* (Linnaeus) (Reduviidae)

- 01B: 10 January 1981 [Norton, Worcester. EMM129:60]  
 05E: 24 May [Wytham and Bagley Woods, Oxford. Nymph. EMM136:149-152]  
 06D: 19 June [Wytham and Bagley Woods, Oxford. Nymph. EMM136:149-152]  
 07A: 2 July 2018 [Odiham Common, VC12. Hem6:230]  
 07D: 19 July 2018 [Aldershot Military Cemetery, VC12. Hem6:230] 17 July 2006 [Danescombe, Calstock, Cornwall. CornwallHets] 18 July 2006 [Morden Farm, St Dominick, Cornwall. CornwallHets]  
 07E: 24 July 1999 [Binswood, VC12. Hem6:230] 22 July 2014 [Tendring Hall, Stoke-by-Nayland, VC26. Hem5:188]  
 07F: 28 July 2014 [Holme, Holmehurst Track, West Norfolk. Hem4:38]  
 08A: 5 August 1990 [Castleknock, Dublin. ERJV105:49-52] 4 August 1981 [Chelsea Physic Garden, London, Middlesex. LondonHets] 4 August 1990 [Glovers Wood, near Charlwood, Surrey. BJENH4:61-62]  
 08B: 7 August 1950 [Bookham Common, Surrey. LondonHets] 9 August 1895 [Boxhill, Surrey. LondonHets] 9 August 1984 [Darland's Lake NR, Totteridge, Hertfordshire. LondonHets] 8 August 2006 [Gew Graze, Cornwall. CornwallHets] 7 August 1933 [Horsell Common, Surrey. LondonHets] 7 August 1933 [Horsell, Surrey. LondonHets]  
 08C: 13 August 2014 [Aldershot Military Cemetery, VC12. Hem6:230] 14 August 1964 [Blackheath, Kent. Adult. LondonHets] 15 August 1953 [Bookham Common, Surrey. PTSLENHS1953-54:87-89] 15 August 2006 [Chyvarloe, Cornwall. CornwallHets] 12 August 2006 [Norway Inn, Cornwall. CornwallHets] 11 August 1953 [Oxshott, Surrey. LondonHets] 11 August 1899 [Wisley Common, Surrey. LondonHets] 14 August [Wytham and Bagley Woods, Oxford. Nymph. EMM136:149-152]  
 08D: 16 August 1964 [Blackheath, Kent. Adult. LondonHets] 19 August 1950 [Bookham Common, Surrey. LondonHets] 16 August 2002 [Coed y felin (Hendre), VC51. Hem6:219] 17 August 2006 [Gorranogorras Creek, Penryn, Cornwall. CornwallHets]  
 08E: 24 August 2006 [Kynance Cove, Cornwall. CornwallHets] 22 August 2006 [Lansallos East Coombe, Cornwall. CornwallHets] 21 August 1983 [Louisa Bridge, Kildare. ERJV105:49-52] 23 August 1951 [Pest Infestation Laboratory, Slough, Buckinghamshire. Adult. EMM87:274] 23 August 2006 [Rinsey Cliffs, Cornwall. CornwallHets] 25 August 1942 [Sharpness, Gloucestershire. GloucsHets]  
 08F: 29 August 1943 [Chesterton, Gloucestershire. GloucsHets] 29 August 1994 [Dowdeswell Wood, Gloucestershire. GloucsHets] 30 August 1874 [Esher. EMM34:217-218] 30 August 1953 [Hyde Heath, Buckinghamshire. LondonHets]  
 09A: 5 September 1965 [Dungeness, Kent. PTSLENHS1965:91] 1 September 1873 [G. W. (Glanvilles Wootton). EMM69:234-245] 3 September 1933 [Horsell Common, Surrey. LondonHets] 1 September 1934 [Rickmansworth, Hertfordshire. LondonHets]  
 09B: 7 September 1908 [Chingford, Epping Forest, Essex. LondonHets] 7 September 1976 [Darenth Wood, Kent. LondonHets] 6 September 1943 [Rodborough Fort, Gloucestershire. GloucsHets]  
 09C: 12 September 1951 [Boxhill, Surrey. LondonHets] 12 September 1953 [Boxhill, Surrey. LondonHets] 13 September 2002 [Mossley Hill, Liverpool. EMM141:248]  
 09D: 19 September 1891 [Chobham, Surrey. LondonHets]  
 09E: 23 September 1951 [Amersham, Buckinghamshire. LondonHets] 21 September 1980 [Erisey Barton, Cornwall. CornwallHets] 22 September 2014 [Old Winchester Hill NNR, near West Meon, South Hampshire. BJENH28:94]  
 09F: 28 September 1946 [Ashted, Surrey. PTSLENHS1946-47:77] 29 September 1925 [Fairmead, Epping Forest, Essex. LondonHets]  
 10A: 3 October 1982 [Emo, Laois. ERJV105:49-52]  
 10C: 15 October 1950 [South Heath, Buckinghamshire. LondonHets]

*Oncocephalus pilicornis* Reuter (Reduviidae)

- 07E: 25 July 1990 [On the floodplain of the River Avon, near Pershore, Worcestershire. EMM142:235-241]

*Pygolampis bidentata* (Goeze) (Reduviidae)

05E: 22 May 1914 [Between Brockenhurst and Beaulieu Road railway stations, New Forest. Male. EMM50:176-177]

*Reduvius personatus* (Linnaeus) (Reduviidae)

03E: 23 March 1951 [Guildford, Surrey. LondonHets]

04E: 25 April 1985 [Cirencester Market Place, Gloucestershire. GloucsHets] 22 April 2000 [Forthampton Oaks, near Tewkesbury, Gloucestershire. Adult. BJENH15:63-64]

06D: 20 June 2011 [Romsey, South Hampshire. Nymph reared to adult male. BJENH25:174] 18 June 1950 [Southend, Essex. Nymph. LondonHets]

06E: 22 June 1933 [Berkhamsted, Hertfordshire. Female. LondonHets] 22 June 1944 [Daglingworth, Gloucestershire. GloucsHets] 22 June 1951 [Stevenage, Hertfordshire. LondonHets]

06F: 27 June 1992 [Little Comberton, Worcestershire. EMM129:60] 30 June 1967 [Tilbury, Essex. LondonHets]

07A: 1 July 1944 [Chesterton, Gloucestershire. GloucsHets] 5 July 1902 [Jesus College, Oxford. Ent35:201-202] 1 July 1885 [Lincoln. EMM22:115] 1 July 1958 [Loughton, Epping Forest, Essex. LondonHets]

07B: 8 July 1999 [Knaphill, Surrey. BJENH13:187]

07C: 11 July 1966 [Carshalton Beeches, near Croydon, Surrey. EMM103:143] 11 July 1970 [Persore, Worcestershire. EMM129:60]

07D: 19 July 1947 [Bishop's Stortford, Hertfordshire. LondonHets] 17 July 1941 [Chobham, Surrey. LondonHets]

07E: 25 July 1948 [Cheltenham, Gloucestershire. GloucsHets] 25 July 1951 [Gloucester, Gloucestershire. GloucsHets]

08C: 14 August 1999 [Forthampton Oaks, near Tewkesbury, Gloucestershire. Adult. BJENH15:63-64]

08E: 22 August 1978 [Monmouth, Gwent. EMM114:70]

09B: 6 September 1996 [Brentford, Middlesex. Nymph. BJENH10:176]

**Detailed records**

*Coranus aethiops* Jakovlev (Reduviidae)

In water traps on dry bare peat surrounded by mature heather [Hatfield Moor. 1990. Male brachypters. BJENH26:185-186]

*Coranus subapterus* (De Geer) (Reduviidae)

Sweeping ericaceous heath [Thursley Common, Surrey. 31 August 2010. Hem1:23]

*Coranus subapterus/woodroffei/aethiops* AMBIGUOUS (Reduviidae)

Where dunes adjoined a rocky headland [Ligger Point, Penhale Sands, Cornwall. 10 June 1956. Nymphs. CornwallHets]

Sweeping short, sparse vegetation between Gorse on gravelly ground [Greenham Common, Newbury, Berkshire. 21 June 2010. Nymph. Hem1:23]

At the roots on ling [Oxshott. 30 June 1951. Nymph. PTSLENHS1951-52:73-74]

Sweeping short, sparse vegetation between Gorse on gravelly ground [Greenham Common, Newbury, Berkshire. 3 July 2010. Nymph. Hem1:23]

Ling [Oxshott Heath and Esher Common. 12 July 1952. PTSLENHS1952-53:83-84]

At the roots of heath on a slope [Oxshott Station, Surrey. 22 July 1950. PTSLENHS1950-51:74-75]

Under *Calluna* [Hounslow Heath, Middlesex. 26 July 1952. Female macropter. Ent86:34-40]

Beneath a mat of heather [Oxshott Heath, Surrey. 27 July 1964. Adult. LondonHets]

In a patch of dry grass [West Walton, Norfolk. 5 August 1901. EMM38:80]

At the roots of short grass on a steep slope [Above King's Court, Rodborough, Gloucestershire. 7 August 1943. EMM80:18-19]

Macropters at a sandy area [Worlington/Breckenhams, Suffolk. 19 August 1934. EMM71:113-114]  
 Under a stone, demolishing *Trapezonotus agrestis*. Gave off odour of ripe pears [Lakenheath Warren, Suffolk. 27 August 1900. EMM36:288-289]  
 Under heather [New Forest. 29 August 1949. Male and female macropters. EMM87:242-244]  
 Feeding on *Myrmica scabrinoides* worker [Rodborough Hill, Gloucestershire. 27 August 1944. Female. ERJV57:33-34]  
 On the lichen-covered soil among heath plants [St George's Down, Isle of Wight. 5 September 1923. EMM60:117-118]  
 Under heather [Ash Vale, Surrey. 10 September 1950. Female macropter in copula with male brachypter. EMM87:242-244]  
 Under stones [Headley Lane, Surrey. 13 September 1903. LondonHets]  
 Beating ling [Oxshott. 11 September 1897. EMM34:13-15]  
 Sweeping [Oxshott Heath, Surrey. 15 September 1963. Adult. LondonHets]  
 Sweeping heather [Sand Pit, Horsell Common, near Woking, Surrey. 15 September 2007. BJENH21:184]  
 On sea-defence bank [Snettisham RSPB Reserve, West Norfolk. 11 September 2009. HN15:13]  
 Sweeping [Esher Common, Surrey. 19 September 1963. Adult. LondonHets]  
 Emitted a rancid scent [Rodborough Hill, Gloucestershire. 2 October 1944. ERJV57:33-34]  
 On sandhills [Anglesey. September 1923. EMM60:37-39]  
 On heath [Blythburgh, Suffolk. SuffolkHets]  
 Under heather growing on the banks of a gravel pit [Bucklebury Common, Berkshire. PTSLENHS1951-52:17-18]  
 At roots on coastal sandhills [Camber sandhills, Rye. EMM21:19-20]  
 In bare places on a heath [Chobham. August/September 1882. EMM19:140]  
 Found on the sand, fully winged examples occasionally met with. Has a pleasant scent, like that of ripe pears [Deal Sandhills. EMM36:94-101]  
 Under *Erodium* [Deal, Kent. EMM26:81-82]  
 Heathy places [Falmouth, Cornwall. TSBE1:51-84]  
 Favourite habitat is sand dune in an early stage of plant colonisation. During rain and high wind, adults and nymphs shelter under moss, pine slash and bark of pine stumps. Adults prey upon Elaterid larvae, *Forficula auricularia* nymphs, *Coelocrabro ambiguus*, *Lasius niger*, *Myrmica laevinodis*, Ichneumonids and a Lycosid spider. Nymphs have been observed to feed on *Melanimon tibialis*. Eggs are laid during September and October on plants, bark of stumps, pine slash or in cracks in lichen and moss. The bug appears to overwinter in this stage. No adults were found from November 1951 to June 1952. The eggs hatch from late April to early May. There are five nymphal instars. Brachypters (96%) and macropters (4%) occur, with wing length varying over a wide range (3-12mm) [Formby district near Liverpool. 1950-1951. PRES(A)28:100-110]  
 On heath [Foxhall, Suffolk. SuffolkHets]  
 On the sand hills [Freshwater Bay, Pembrokeshire. 1866. EMM3:92]  
 Sandhills [Kessingland Sandhills, Suffolk. SuffolkHets]  
 Inhabits two fairly distinct localities: moorland and sand-dune. On moorland it occurs in bare patches among heather (brachypters only). In sand-dunes it occurs where plant colonisation is at an early stage (macropters and brachypters, 17:386 = 4.2%:95.8%) [Lancashire. EMM88:151]  
 Sweeping heath [Leith Hill. September 1869/1870. EMM7:184-185]  
 In a dead rabbit [Near Thetford Bridge, Suffolk. SuffolkHets]  
 Kept alive in culture fed on aphids and caterpillars. Observed to kill a caterpillar of *Spilosoma lubricipeda* by just two pricks from its rostrum, after which it fed, draining the caterpillar dry. Laid eggs on a supplied twig of heather [New Forest. August 2017. Female. EMM54:16-17]  
 On dunes [Pembrokeshire coast. Last week in August and first week in September. Sand-dune form. EMM99:166]  
 Where dunes adjoined a rocky headland, the sand covered with moss and thyme. Feeding on larvae of the beetle *Galeraea tanacetii* [Penhale Sands, near Padstow, Cornwall. June 1956. Nymphs. EMM92:372-374]

Running about fully exposed on small bare stony patches between the sparse, low-growing hillside plant-carpet. When picked up, may emit a very distinct, but evanescent, scent, similar to that of an unripe pineapple. In culture will feed on freshly killed flies and spiders, small caterpillars, ants' larvae and pupae, etc. [Rodborough Hill, Gloucestershire. Nymphs and adults.

ERJV57:33-34]

Heathlands [Southern England. TSBE16:1-48]

On heath [Sussex. August 1881. EMM18:113]

Bare patches on moorland [Thurstaston, Cheshire. 1950-1951. PRESL(A)28:100-110]

In the fixed dunes [Whiteford Burrows, Gower coast, South Wales. 1960-1961. Ent100:157-165]

A pair under *Erica* [Witley Common, Surrey. 1957-1958. Male macropter and female brachypter. Ent92:6-13]

Heathy places [Woking and Deal. Saunders1892]

On a heath [Woodbury Common, South Devon. September 1915. EMM51:312-313]

*Coranus woodroffei* P.V. Putshkov (Reduviidae)

Sweeping ericaceous heath [Witley Common, Surrey. 19 August 2012. Hem1:23]

Sweeping ericaceous heath [Thursley Common, Surrey. 22 August 2010. Hem1:23]

Sweeping ericaceous heath [Thursley Common, Surrey. 31 August 2010. Hem1:23]

Sweeping ericaceous heath [Witley Common, Surrey. 27 August 2010. Hem1:23]

Road verge [Breckland. BJENH8:207]

*Empicoris baerensprungi* (Dohrn) (Reduviidae)

On broken end of oak bough [Snelsmore Common, Berkshire. 12 June 2003. HN3:6]

Beating the shattered stump of a broken-off lower bough of an old parkland oak [Toddington Manor, Gloucestershire. 12 June 2003. Male. BJENH17:76]

Beating the dead branch of a tree [Kings Wood (Heath and Reach), Bedfordshire. 17 June 2007. HN11:15]

Searching beneath the loose bark of a very large, old oak tree [Thame Park, Oxfordshire. 16 June 1916. Male. EMM53:182-183]

Beating old oak [Castle Bottom NNR, North Hampshire. 29 June 2000. EMM137:231-232]

Beating a stack of cut pine branches [Esher. 30 August 1874. EMM34:217-218]

On stumps of broken off boughs on large oaks in old pasture woodland [Bartley Heath, North Hampshire. 1999. EMM137:231-232]

From an oak trunk [Monks Wood. HSGN8:4]

Sitting on the jagged stump where a dead branch had broken off an oak [Reading district. 1940. EMM77:101-104]

On oak [Wytham Wood, Oxford. EMM136:149-152]

*Empicoris culiciformis* (De Geer) (Reduviidae)

On the inner wall of an outhouse [Boxmoor, Hertfordshire. 9 January 1947. EMM83:104]

In sparrow's nest in eaves of building [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. 6 January 1950. LondonHets]

Walking on a ceiling [Finchley, Middlesex. 20 January 1948. EMM85:91]

On window in house [Aberystwyth, Cardigan. 19 June 1955. Male. EMM92:54-64]

In house [Mayfield, Dublin. 18 June 1932. ERJV105:49-52]

In the attic of a house [George Street, Edinburgh. 3 July 1952. HN15:10]

In a thatched bus shelter [Near Stratford Tony, Salisbury, Wiltshire. 10 July 1951. Adult. EMM87:274]

In the dining room of a house [Harold's Cross, Dublin. 30 July 1943. ERJV105:49-52]

In sparrow's nest in eaves of building [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. 10 August 1950. LondonHets]

To light at window [Uxbridge, Middlesex. 17 August 1934. Ent71:148-153]

In sparrow's nest [Datchet, Buckinghamshire. 23 August 1950. LondonHets]

In roof of chicken-coops [Uxbridge, Middlesex. 28 August 1935. Ent71:148-153]

Found sitting on the top of a wooden fence [Wilmslow, Cheshire. 28 August 1926. Female. EMM62:265-266]  
 Walking on a ceiling [Finchley, Middlesex. 15 September 1947. EMM85:91]  
 In squirrel's drey [Hale End, Epping Forest, Essex. 12 September 1950. LondonHets]  
 Abundant in old birds' nests under superstructure of road bridge [Twyford, South Hampshire. 13 September 1999. EMM137:231-232]  
 In a house [Watford, Hertfordshire. 12 September 1949. LondonHets]  
 In an outbuilding [Kegworth, Leicestershire. 16 September 1923. EMM60:64]  
 In office [London, W1. 26 September 1983. PTBENHS17:18-19]  
 In sparrow's nest [Regent's Park, Middlesex. 29 September 1950. LondonHets]  
 In farm granary [Datchet, Buckinghamshire. 8 November 1955. LondonHets]  
 Walking on a ceiling [Finchley, Middlesex. 20 December 1947. EMM85:91]  
 Placed in culture. Later seen feeding on a *Culex* and a *Phora* [Redland, Bristol. 18 December 1902. EMM39:123-124]  
 Flew in a study window and alighted on an open book [Armagh. ERJV105:49-52]  
 In a water trap situated within an expanse of mat-grass (*Nardus stricta*) at 1010 m a.s.l. [Ben Lawers, VC88, Scotland. 24 June to 7 July 2009. Female. HN15:10]  
 At mercury vapour light [Blackheath, Kent. PTSLENHS1962:123-183]  
 In every house the author has lived in for an extended period (ten, in four towns) [British Isles. HSGN13:2]  
 In houses [Buckinghamshire. PRESL(C)8:22]  
 On the wall of a house [Carlisle. EMM51:145-146]  
 Beating overhanging vegetation and in small pockets of leaf litter [Deptford Creek, London. 1997-1998. BJENH12:193-213]  
 Indoors on wall in bedroom [Hale End, Epping Forest, Essex. LondonHets]  
 In the bath of a house [Harold's Cross, Dublin. 7(17) March 1932. ERJV105:49-52]  
 On an oak trunk [Hedgerley, Buckinghamshire. PRESL(C)8:22]  
 In a comatose condition on rafters in the roof of a house [Lewisham. PSLENHS1929-30:70]  
 In garden [Leyton, Essex. 1950. LondonHets]  
 Crawling on the walls of a counting house [Norwich. Butler1923]  
 On house wall [Orton Longville, Peterborough, Watsonian Huntingdonshire. EG20:125-135]  
 In thatch [Reigate. Saunders1892]  
 From straw bales in an open-sided barn [Stormont Loch, near Blairgowrie, VC89. 27 July to 3 August 1990. HN15:10]  
 Beating faggots [Tuddenham St Mary, Suffolk. July and August. SuffolkHets]  
 At the roots of *Psamma* on sandhills. In culture, fed on Chironomids, mosquitoes, *Drosophila* and a green Chloropid [Wells, Norfolk. April. Ent89:13-15]  
 In a granary [West Gloucestershire. PRESL(C)8:22]  
 Beating bundles of cut reeds [Wicken Fen. ERJV47:13-14]

*Empicoris vagabundus* (Linnaeus) (Reduviidae)

In old nest of Mistle Thrush [Norton, Worcester. 10 January 1981. EMM129:60]  
 On oak [Wytham and Bagley Woods, Oxford. 24 May. Nymph. EMM136:149-152]  
 On oak [Wytham and Bagley Woods, Oxford. 19 June. Nymph. EMM136:149-152]  
 Amongst old honeysuckle and ivy tangles on oak [Odiham Common, VC12. 2 July 2018. Hem6:230]  
 On ornamental Cypress [Aldershot Military Cemetery, VC12. 19 July 2018. Hem6:230]  
 Dead branch of pear tree [Danescombe, Calstock, Cornwall. 17 July 2006. CornwallHets]  
 Off old cherry trees [Morden Farm, St Dominick, Cornwall. 18 July 2006. CornwallHets]  
 Resting on a door jamb inside a covered passage of a house at midnight [Castleknock, Dublin. 5 August 1990. ERJV105:49-52]  
 Beating the understorey of hazel and holly in a wood [Glovers Wood, near Charlwood, Surrey. 4 August 1990. BJENH4:61-62]  
 On ornamental Cypress [Aldershot Military Cemetery, VC12. 13 August 2014. Hem6:230]  
 Beating bramble [Blackheath, Kent. 14 August 1964. Adult. LondonHets]

- Lichen-covered hawthorns and blackthorns [Bookham Common, Surrey. 15 August 1953. PTSLENHS1953-54:87-89]
- Gorse by saltmarsh [Norway Inn, Cornwall. 12 August 2006. CornwallHets]
- Beating hedge [Wisley Common, Surrey. 11 August 1899. LondonHets]
- On oak [Wytham and Bagley Woods, Oxford. 14 August. Nymph. EMM136:149-152]
- Beating ivy [Blackheath, Kent. 16 August 1964. Adult. LondonHets]
- Prostrate broom [Kynance Cove, Cornwall. 24 August 2006. CornwallHets]
- On gorse bush in valley and off ivy on cliffs at mouth [Lansallos East Coombe, Cornwall. 22 August 2006. CornwallHets]
- On trees near canal and marsh [Louisa Bridge, Kildare. 21 August 1983. ERJV105:49-52]
- Beating a fir tree, *Picea* species [Pest Infestation Laboratory, Slough, Buckinghamshire. 23 August 1951. Adult. EMM87:274]
- Beating a stack of cut pine branches [Esher. 30 August 1874. EMM34:217-218]
- On *Buxus* [Hyde Heath, Buckinghamshire. 30 August 1953. LondonHets]
- On *Quercus* [Rickmansworth, Hertfordshire. 1 September 1934. LondonHets]
- On *Buxus* [Boxhill, Surrey. 12 September 1951. LondonHets]
- Beating an ornamental cypress, *Cupressus macrocarpa* 'Goldcrest' [Mossley Hill, Liverpool. 13 September 2002. EMM141:248]
- On spruce [Amersham, Buckinghamshire. 23 September 1951. LondonHets]
- From oak [Ashtead, Surrey. 28 September 1946. PTSLENHS1946-47:77]
- Beating *Fagus* within mixed woodland [Emo, Laois. 3 October 1982. ERJV105:49-52]
- Beating ivy [Bembridge, Isle of Wight. August 1926. EMM63:41-42]
- Beating holly trees [Bentley Woods, Suffolk. August 1904. One pair in copula. SuffolkHets]
- Firs [British Isles. Saunders1892]
- In houses [British Isles. Saunders1892]
- In ivy [British Isles. Saunders1892]
- Oak [British Isles. Saunders1892]
- On palings [British Isles. Saunders1892]
- Beating lime [Brownsea Island, Poole Harbour, Dorset. EG60:37-71]
- Under heather growing on the banks of a gravel pit [Bucklebury Common, Berkshire. Nymph. PTSLENHS1951-52:17-18]
- Under marram on sand-dunes [Burnham, North Somerset. PRESL(C)8:22]
- Suction sampled from Cruciferae [Chelsea Physic Garden, London. 1979-1981. PTBENHS16:50-52]
- Beating a dead Scots Fir [Cumberland. September 1916. EMM53:112-113]
- In debris of fern [Darenth Wood. October 1869/1870. EMM7:184-185]
- Crawling on a baby [Harold's Cross, Dublin. ERJV105:242-243]
- On yew [In the neighbourhood of Forres, Morayshire. EMM14:165-167]
- In ivy [Lee. September. D&S1865]
- From apple trees and spruce firs [Neighbourhood of Ewhurst, Surrey. August 1889. EMM25:401-402]
- Beating oak [Nutberry, Dumfriesshire. September 1933. EMM70:162]
- On the trunks and underside of branches (especially where there were tufts of shoots), under loose bark and in crevices, of oak, beech, ash, birch, hawthorn, hazel, yew and pine [Reading district. 1940. Nymphs. EMM77:101-104]
- Under fir trees [Sussex. August 1881. EMM18:113]
- In a granary eating Psocids (*Liposcelis*) [West Gloucestershire. PRESL(C)8:22]
- Off Scotch fir [Within 10 miles of Perth, Scotland. Summer 1892. EMM29:92-93]
- On oak [Wytham and Bagley Woods, Oxford. EMM136:149-152]
- Pygolampis bidentata* (Goeze) (Reduviidae)
- Sweeping a railway bank [Between Brockenhurst and Beaulieu Road railway stations, New Forest. 22 May 1914. Male. EMM50:176-177]
- Beneath a piece of sandstone [Quatford, near Bridgnorth, Shropshire. Middle of September, circa 1835. D&S1865]

Sweeping in a damp place [Totnes, Devon. Butler1923]

*Reduvius personatus* (Linnaeus) (Reduviidae)

- In a pigeon's nest in a derelict theatre [Guildford, Surrey. 23 March 1951. LondonHets]
- In shop window [Cirencester Market Place, Gloucestershire. 25 April 1985. GloucsHets]
- Under loose bark on old oaks [Forthampton Oaks, near Tewkesbury, Gloucestershire. 22 April 2000. Adult. BJENH15:63-64]
- To light [Berkhamsted, Hertfordshire. 22 June 1933. Female. LondonHets]
- In a school [Tilbury, Essex. 30 June 1967. LondonHets]
- Crawling up a wall towards an electric light [Jesus College, Oxford. 5 July 1902. Ent35:201-202]
- On a sack [Lincoln. 1 July 1885. EMM22:115]
- On a garden fence [Knaphill, Surrey. 8 July 1999. BJENH13:187]
- On the ceiling of a house [Carshalton Beeches, near Croydon, Surrey. 11 July 1966. EMM103:143]
- At light [Pershore, Worcestershire. 11 July 1970. EMM129:60]
- In a mill [Bishop's Stortford, Hertfordshire. 19 July 1947. LondonHets]
- On a coat in a garden [Chobham, Surrey. 17 July 1941. LondonHets]
- Under loose bark on old oaks [Forthampton Oaks, near Tewkesbury, Gloucestershire. 14 August 1999. Adult. BJENH15:63-64]
- On the outside wall of a garage [Monmouth, Gwent. 22 August 1978. EMM114:70]
- Feeding on larvae and pupae of the beetle *Ptinus fur* in the kitchen of a house [Brentford, Middlesex. 6 September 1996. Nymph. BJENH10:176]
- In a druggist's shop. Carrying a load of dusty fibrous matter on its back. Kept in culture and fed on supplied living flies and a *Cimex lectularius* [Ashford, Kent. Third week of June 1909. Nymph. EMM45:280]
- Outhouse [Bedford. EMM86:6-8]
- In warehouse [Brentford Docks, Middlesex. 15 November 1950. Larval skins. LondonHets]
- In culture punctured harvest spiders [Britain. 1947-1948. Adults and nymphs. EMM85:246-247]
- Biting the editor of the ERJV in his house with the windows open one summer evening [British Isles. ERJV123:156]
- In bird nests [British Isles. EMM115:139-144]
- In a wasps' nest [Bury St Edmonds, Suffolk. 1892. SuffolkHets]
- In a wasps' nest [Bury St Edmonds, Suffolk. 1901. SuffolkHets]
- In hollows and under bark on veteran oaks in a deer park [Bushy Park, Middlesex. June-August 2004. Adults and nymphs. HN4:5]
- Flying to light [Cambridgeshire. EMM44:275]
- Inside cottage [Cecily Hill, Cirencester, Gloucestershire. July 1993. GloucsHets]
- In a house [Central Peterborough. April 2008. HN11:11]
- Flew in at a lighted window [Datchet. June. Adult. EMM86:301]
- At light [Datchet, Buckinghamshire. June 1949. LondonHets]
- At light [Deal and Dover, Kent. EMM26:81-82]
- At light [Dymchurch, Kent. PTSLENHS1952-53:49-50]
- In a house [Eltisley, Cambridgeshire. Prior to 3 December 1974. Nymph. PTBENHS8:27]
- In a house [Enfield. PTSLENHS1935-36:22]
- Old house [Huntingdon. EG20:125-135]
- In a nest of the wasp *Vespa germanica*, in a rat's hole near buildings [In the vicinity of Bury St Edmonds, Suffolk. 1889-1895. EMM32:153-155]
- Inside a house [Nailsworth, Gloucestershire. August 1995. Nymph. GloucsHets]
- To light in a house [Near Bramford, Suffolk. November 1900. SuffolkHets]
- In a spider's web [Near Chigwell Row, Essex. circa 1817. LondonHets]
- In a house [Oxford. BJENH4:43]
- Old office building [Peterborough. EG20:125-135]
- In a light trap [Richmond Park, Surrey. 1994-1995. BJENH9:236]
- In a light trap on top of a building [Rothamsted Experimental Station, Harpenden. 1948. Male. TRESL112:173-220]

On a doorstep and flying to light [Rotherfield Peppard, Henley-on-Thames. EMM39:17-18]  
 In the roof void of an historic building [Salisbury. April. Dust-covered nymphs. HN17/18:20]  
 In office [Sheep Street, Cirencester, Gloucestershire. January 1995. Dead adult. GloucsHets]  
 Shop window [Stamford. EG20:125-135]  
 In the cellar of a house [Sudbury, Suffolk. SuffolkHets]  
 In the attic of a house [Sudbury, Suffolk. Nymph. PTSLENHS1953-54:16]  
 Flew in through a window [Wicken, Cambridgeshire. August 1946. EMM103:143]  
 Flying to light at night [Yarmouth, Suffolk. SuffolkHets]

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as *Coranus aethiops* BJENH26:185-186, BJENH32:363-364, Hem1:2, Hem1:46, Hem1:47, Hem1:6, Hem2:5, Hem3:5, Hem4:88, Hem5:105, Hem5:150, Hem5:5, Hem5:80, Hem5:86, Hem5:90, Hem6:74, HN21:2, HN21:3

#### *Coranus subapterus* (De Geer) (Reduviidae)

as *Coranus subapterus* BJENH26:185-186, Hem1:23, Hem1:46, Hem1:47, Hem1:6, Hem1:96, Hem2:42, Hem2:44, Hem2:5, Hem3:5, Hem4:128, Hem4:29, Hem4:41, Hem4:5, Hem4:72, Hem5:105, Hem5:135, Hem5:150, Hem5:161, Hem5:18, Hem5:28, Hem5:5, Hem5:80, Hem5:85, Hem5:86, Hem6:74, HN21:3, HN23:11

#### *Coranus subapterus/woodroffei/aethiops* AMBIGUOUS (Reduviidae)

as *C. subapterus* EMM81:253-273  
 as *Cor. subapterus* EMM91:7-27  
 as *Coranus* EMM19:117, EMM21:19-20  
 as *Coranus subapterus* BJENH21:184, Butler1923, CornwallHets, D&S1865, EMM102:67-69, EMM11:137-138, EMM14:29-31, EMM15:117-118, EMM17:234-235, EMM18:113, EMM19:140, EMM26:81-82, EMM3:92, EMM34:13-15, EMM36:262, EMM36:288-289, EMM36:94-101, EMM38:80, EMM4:30-33, EMM48:108-111, EMM48:65, EMM51:312-313, EMM54:132-136, EMM54:16-17, EMM57:57-61 & 79-81, EMM60:117-118, EMM60:265-268, EMM60:37-39, EMM62:265-266, EMM67:94, EMM69:234-245, EMM7:184-185, EMM71:113-114, EMM80:18-19, EMM85:152-156, EMM87:242-244, EMM87:288, EMM88:151, EMM89:17, EMM89:2, EMM89:303, EMM92:372-374, EMM96:13, EMM99:166, Ent100:157-165, Ent47:146-147, Ent86:34-40, Ent92:125-128, Ent92:6-13, ERJV57:33-34, GloucsHets, HantsHets, Hem1:23, HN10:5, HN10:6, HN15:13, HN17/18:26, HSGN11:9, HSGN12:13, HSGN13:12, HSGN6:3, LondonHets, PRESL(A)28:100-110, PSLENHS1900:86, PTBENHS19:55, PTSLENHS1949-50:78, PTSLENHS1950-51:36, PTSLENHS1950-51:74-75, PTSLENHS1950-51:78-79, PTSLENHS1950-51:79-80, PTSLENHS1951-52:17-18, PTSLENHS1951-52:73-74, PTSLENHS1952-53:83-84, PTSLENHS1962:123-183, PTSLENHS1965:91, S&L1959, SuffolkHets, Synopsis1875, TRESL55:323-408, TSBE1:51-84, TSBE11:245-280, TSBE16:1-48  
 as *Coranus sub-apterus* Saunders1892

#### *Coranus woodroffei* P.V. Putshkov (Reduviidae)

as *Coranus woodroffei* BJENH25:205-215, BJENH26:185-186, BJENH8:207, Hem1:23, Hem1:46, Hem1:47, Hem1:6, Hem2:5, Hem3:105, Hem3:5, Hem3:76, Hem4:29, Hem4:41, Hem5:105, Hem5:151, Hem5:194, Hem5:28, Hem5:5, Hem5:80, Hem5:85, Hem5:90, Hem6:244, Hem6:74, HN21:3

#### *Empicoris baerensprungi* (Dohrn) (Reduviidae)

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 as *Emp. baerensprungi* EMM91:7-27  
 as *Empicoris baerensprungi* BJENH17:76, EMM136:149-152, EMM137:231-232, ERJV105:49-52, Hem1:46, Hem1:47, Hem1:6, Hem1:96, Hem2:33, Hem3:43, Hem3:5, Hem3:76, Hem3:86,

Hem4:5, Hem4:72, Hem5:105, Hem5:151, Hem5:194, Hem5:5, Hem5:57, Hem6:75, HN11:15, HN3:6, HN6:13, HSGN1:4, HSGN13:2, HSGN8:1, HSGN8:4, HSGN8:9, LondonHets, S&L1959

as *Ploiaria baerensprungi* EMM34:217-218

as *Ploiaria baerensprungi* HantsHets

as *Ploiariodes baerensprungi* EMM43:196-202

as *Ploiariola baerensprungi* Butler1923, EMM48:65, EMM53:182-183, EMM77:101-104

*Empicoris culiciformis* (De Geer) (Reduviidae)

as *E. culiciformis* EMM81:253-273, EMM82:94-95

as *Emp. culiciformis* EMM91:7-27

as *Empicoris culiciformis* BJENH12:193-213, EG20:125-135, EMM136:149-152, EMM137:231-232, EMM83:104, EMM85:249-253, EMM85:91, EMM87:103, EMM87:274, EMM91:96-97, EMM92:54-64, EMM93:49-51, Ent89:13-15, ERJV105:49-52, ERJV47:13-14, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:33, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:76, Hem3:86, Hem4:104, Hem4:134, Hem4:148, Hem4:29, Hem4:5, Hem4:72, Hem4:88, Hem5:105, Hem5:122, Hem5:136, Hem5:139, Hem5:143, Hem5:156, Hem5:161, Hem5:18, Hem5:28, Hem5:42, Hem5:5, Hem5:57, Hem5:71, Hem5:94, Hem6:235, Hem6:75, HN15:10, HN15:11, HN17/18:26, HN9:7, HSGN10:12, HSGN11:7, HSGN13:2, HSGN3:11, HSGN8:4, LondonHets, PTBENHS17:18-19, PTSLENHS1945-46:27-28, PTSLENHS1950-51:44-45, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280

as *Empicoris thermalis* BJENH25:205-215, EMM136:149-152, ERJV105:49-52, HSGN13:2

as *Ploiaria culiciformis* EMM34:217-218, EMM39:123-124, EMM51:145-146, EMM69:234-245, HantsHets, Saunders1892, SuffolkHets, Synopsis1875

as *Ploiaria erratica* D&S1865, EMM34:217-218

as *Ploiariodes culiciformis* EMM43:196-202

as *Ploiariola culiciformis* Butler1923, EMM48:65, EMM60:64, EMM62:265-266, Ent55:119, Ent71:148-153, IrelandHets, PRESL(C)8:22, PSLENHS1929-30:70

*Empicoris vagabundus* (Linnaeus) (Reduviidae)

as *E. vagabundus* EMM81:253-273, EMM82:94-95

as *Emp. vagabundus* EMM91:7-27

as *Empicoris vagabundus* BJENH28:94, BJENH4:61-62, CornwallHets, EG20:125-135, EG60:37-71, EMM129:60, EMM136:149-152, EMM141:248, EMM87:274, EMM87:288, EMM91:96-97, ERJV105:242-243, ERJV105:49-52, GloucsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:95, Hem2:15, Hem2:33, Hem2:42, Hem2:44, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:76, Hem4:104, Hem4:134, Hem4:29, Hem4:38, Hem4:5, Hem4:72, Hem4:88, Hem5:105, Hem5:122, Hem5:136, Hem5:139, Hem5:156, Hem5:161, Hem5:18, Hem5:188, Hem5:194, Hem5:206, Hem5:28, Hem5:42, Hem5:5, Hem5:58, Hem5:71, Hem5:94, Hem6:219, Hem6:230, Hem6:271, Hem6:277, Hem6:75, HN17/18:26, HSGN10:12, HSGN11:7, HSGN12:13, HSGN13:2, HSGN3:11, LondonHets, PTBENHS16:50-52, PTSLENHS1946-47:77, PTSLENHS1951-52:17-18, PTSLENHS1953-54:87-89, PTSLENHS1962:123-183, PTSLENHS1965:91, S&L1959, TSBE11:245-280

as *Ploiaria vagabunda* D&S1865, EMM10:118-119, EMM14:165-167, EMM18:113, EMM25:401-402, EMM29:92-93, EMM31:97-98, EMM34:217-218, EMM69:234-245, EMM7:184-185, Ent27:222, Ent31:302, HantsHets, PSLENHS1898:112, Saunders1892, SuffolkHets, Synopsis1875

as *Ploiariola vagabunda* Butler1923, EMM48:65, EMM53:112-113, EMM63:41-42, EMM69:21, EMM70:162, EMM77:101-104, EMM94:68-69, Ent67:129-130, IrelandHets, PRESL(C)8:22, TSBE1:51-84

*Oncocephalus pilicornis* Reuter (Reduviidae)

as *Oncocephalus pilicornis* BJENH25:205-215, EMM142:235-241, Hem1:46, Hem1:47, Hem1:6, Hem3:5, Hem4:114, Hem4:119, Hem4:122, Hem4:72, Hem5:105, Hem5:5, Hem6:76, HN8:9

*Pygolampis bidentata* (Goeze) (Reduviidae)as *P. bidentata* EMM81:253-273as *Pyg. bidentata* EMM91:7-27

as *Pygolampis bidentata* Butler1923, EMM142:235-241, EMM48:65, EMM50:176-177, Ent47:207, ERJV26:190, HantsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:96, Hem3:43, Hem3:5, Hem4:5, Hem4:72, Hem5:105, Hem5:122, Hem5:5, Hem6:235, Hem6:76, HN8:9, HSGN1:4, HSGN4:3, HSGN8:9, PSLENHS1914-15:90, PSLENHS1920-21:58, PSLENHS1925-26:84, PTSLENHS1940-41:19-20, S&L1959, Saunders1892, Synopsis1875  
as *Pygolampis bifurcata* D&S1865

*Reduvius personatus* (Linnaeus) (Reduviidae)as *R. personatus* EMM81:253-273as *Red. personatus* EMM91:7-27

as *Reduvius personatus* BJENH10:176, BJENH13:187, BJENH15:63-64, BJENH25:174, BJENH4:43, BJENH9:236, Butler1923, CornwallHets, D&S1865, EG20:125-135, EMM103:143, EMM114:70, EMM115:139-144, EMM129:60, EMM14:29-31, EMM142:235-241, EMM15:117-118, EMM22:115, EMM26:81-82, EMM28:289, EMM32:153-155, EMM39:17-18, EMM44:275, EMM45:280, EMM48:65, EMM69:234-245, EMM81:240, EMM85:152-156, EMM85:246-247, EMM86:301, EMM86:6-8, EMM88:251, EMM90:24, Ent35:201-202, ERJV123:156, GloucsHets, HantsHets, Hem1:46, Hem1:47, Hem1:6, Hem1:96, Hem2:15, Hem2:33, Hem3:43, Hem3:5, Hem3:76, Hem4:104, Hem4:134, Hem4:29, Hem4:5, Hem4:72, Hem5:105, Hem5:151, Hem5:156, Hem5:18, Hem5:194, Hem5:28, Hem5:42, Hem5:5, Hem5:58, Hem5:71, Hem5:94, Hem6:76, HN11:11, HN17/18:20, HN17/18:26, HN4:5, HN8:9, HN9:3, HN9:7, HSGN13:12, HSGN4:6, LondonHets, PTBENHS8:27, PTBENHS8:28, PTSLENHS1935-36:22, PTSLENHS1945-46:10, PTSLENHS1952-53:14, PTSLENHS1952-53:49-50, PTSLENHS1953-54:16, PTSLENHS1962:123-183, PTSLENHS1963Part1:12, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TRESL112:173-220, TSBE1:51-84, TSBE11:245-280

**Tabulated summaries**

On the following pages are summaries of the results of this review for each of the species in scope. The common name is that used in the literature consulted; or has been created from aspects of the species natural history. The first report is the first mention of the species in the literature consulted, starting at D&S1865. The ambiguities, if they occur, refer to the ambiguous species names of Hem2:4-8, Hem3:15-17, Hem5:14-15 and Hem5:114-118. The geographical distribution is based upon records published elsewhere in this journal; and is shown as a map from the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The presence of a vice-county record is shown with a black fill, and the absence with a white fill. The seasonal distribution is based on the heximonth records listed above and is shown as a calendar. The presence of an adult record is shown with a black fill, and the absence with a white fill, with a figure representing the number of distinct records in the above list. The existence of nymph and egg records is shown by the letters 'N' and 'E', respectively, without a figure. Heximonth records are assumed to be adult unless explicitly stated otherwise. The other details is a narrative constructed from the detailed records listed above. Aspects of the narrative which include records for nymphs or eggs are marked '(n)' or '(e)', respectively. Those that include winter records (which I define as 1st January to 31st March) are marked '(w)'. Habitus photographs of the species are included, where available.

***Coranus aethiops* Jakovlev (Reduviidae)**

*Common name.* The Peat Assassinbug.

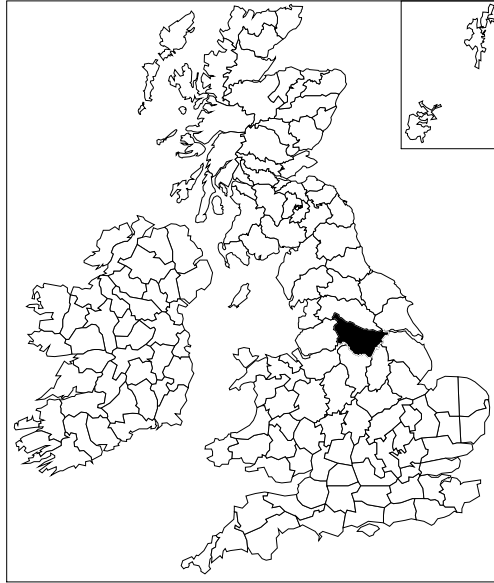
*First report.* BJENH26:185-186 as *Coranus aethiops*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from water traps on dry, bare peat surrounded by mature heather.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						
August						
September				1		
October						
November						
December						

No habitus images are available.

***Coranus subapterus* (De Geer) (Reduviidae)**

*Common name.* The Sand-dune Assassinbug.

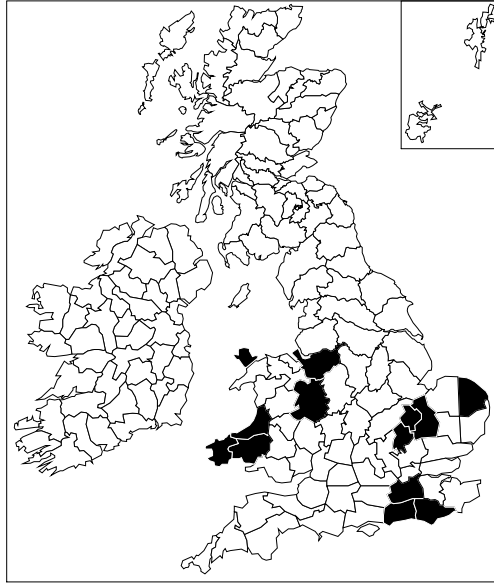
*First report.* D&S1865 as *Coranus subapterus*.

*Ambiguities.* Prior to BJENH25:205-215, BJENH26:185-186 and Hem1:23 records for this species may refer to *Coranus woodroffeii* or *Coranus aethiops* (Hem2:4-8).

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sweeping ericaceous heath.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						
August		1				1
September						
October		1				
November						
December						

No habitus images are available.

***Coranus woodroffei* P.V. Putshkov (Reduviidae)**

*Common name.* The Heath Assassinbug.

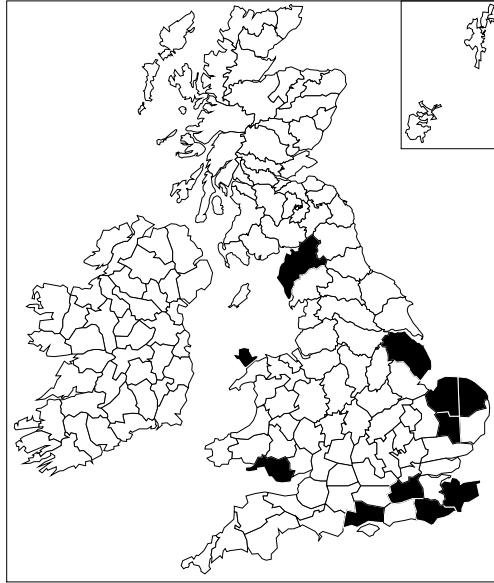
*First report.* BJENH8:207, BJENH25:205-215 and Hem1:23 as *Coranus woodroffei*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from a road verge and sweeping ericaceous heath.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July			1			
August				1	1	2
September	1		1			1
October						
November						
December						

No habitus images are available.

***Empicoris baerensprungi* (Dohrn) (Reduviidae)**

*Common name.* The Oak Threadbug.

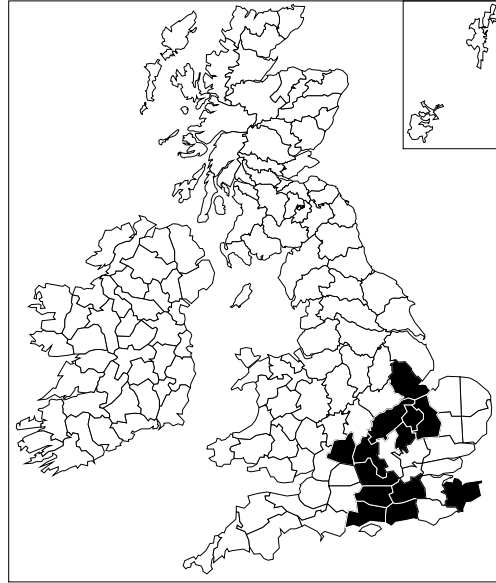
*First report.* EMM34:217-218 as *Ploiaria baerensprungi*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from parkland, and pasture woodland; specifically from oak (including from trunk, broken end of bough, stumps of broken-off boughs, beneath loose bark, and stump where a dead branch had broken off), and a stack of cut pine branches. It has been taken beating.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June			2	2		1
July		1				
August	1					1
September						
October						
November						
December						

No habitus images are available.

***Empicoris culiciformis* (De Geer) (Reduviidae)**

*Common name.* The Domestic Threadbug.

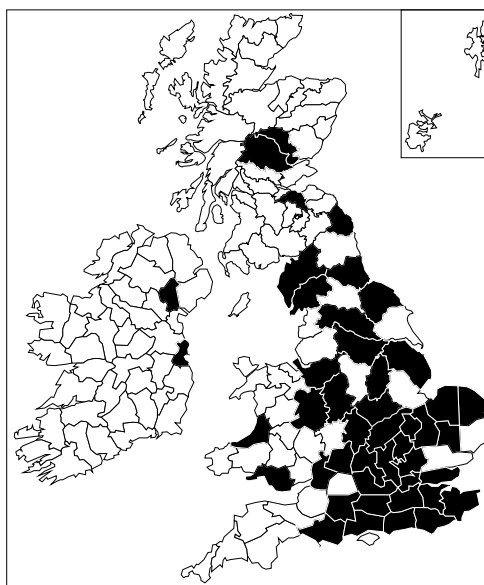
*First report.* D&S1865 as *Ploiaria erratica*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sparrow's nest in eaves of building (w), insides houses (on ceiling (w), in bath (w), in attic, in dining room, on wall in bedroom, on rafters in roof, on window), squirrel's drey, thatch, roof of chicken-coop, granary, inner wall of an outhouse (w), old birds' nests under superstructure of road bridge, the roots of *Psamma* on sandhills, leaf litter, straw bales in an open-sided barn, garden, office, oak trunk, and top of a wooden fence. It has been taken at light, in a water trap set in an expanse of *Nardus stricta* at 1010m, and beating (faggots, bundles of cut reeds, and overhanging vegetation). In culture, seen feeding on *Culex*, *Phora*, Chironomids, *Drosophila* and a green Chloropid.



	1-5	6-10	11-15	16-20	21-25	26-
January		2		2		
February					1	
March						N
April		1				1
May			1	1	1	2
June			1	2	1	
July	2	1		1		1
August		1		1	2	2
September			4	2		2
October	1		1			
November	1	1				
December				2		

No habitus images are available.

***Empicoris vagabundus* (Linnaeus) (Reduviidae)**

*Common name.* The Common Threadbug.

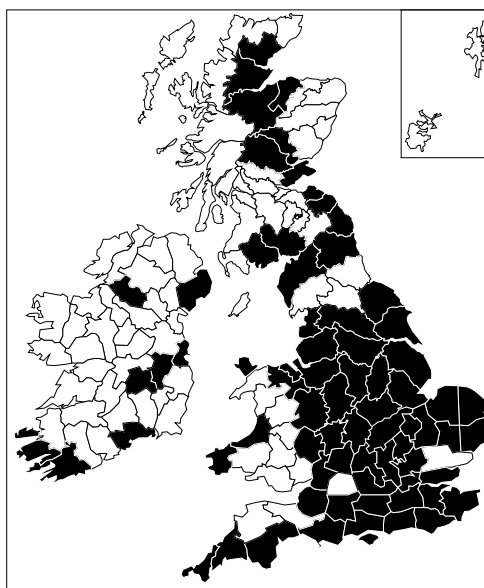
*First report.* D&S1865 as *Ploiaria vagabunda*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from cliffs, saltmarsh, hedge, woodland, houses, sand-dunes, and banks of gravel pit (n); specifically from oak (n), ornamental cypress, *Buxus*, gorse, ivy, apple tree, pear tree, cherry tree, spruce, Scots pine, holly trees, lime, old honeysuckle and ivy tangles on oak, a stack of cut pine branches, bramble, *Fagus*, understorey of hazel and holly, debris of fern, lichen-covered hawthorns and blackthorns, yew, broom, and Cruciferae. It has been taken beating, suction sampling, under heather (n), under marram, in old nest of Mistle Thrush (w), crawling on a baby, on palings, resting on a door jamb inside a covered passage of a house at midnight, and on the trunks and underside of branches (especially where there were tufts of shoots), under loose bark and in crevices, of oak, beech, ash, birch, hawthorn, hazel, yew and pine (n). Seen in a granary eating Psocids (*Liposcelis*).



	1-5	6-10	11-15	16-20	21-25	26-
January		1				
February						
March						
April						
May					N	
June				N		
July	1			3	2	1
August	3	6	7 N	4	6	4
September	4	3	3	1	3	2
October	1		1			
November						
December						



***Oncocephalus pilicornis* Reuter (Reduviidae)**

*Common name.* The Pershore Assassinbug.

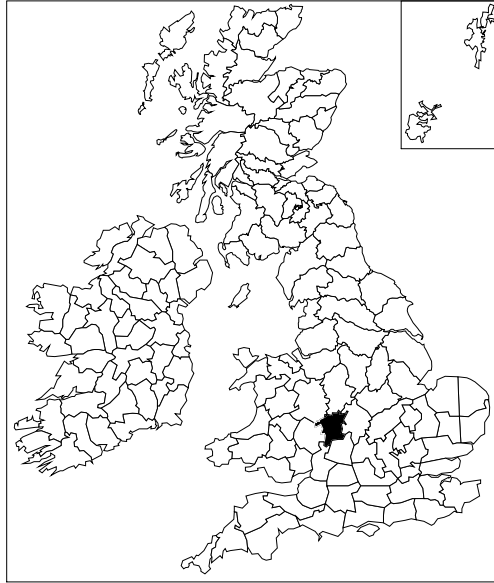
*First report.* EMM142:235-241 as *Oncocephalus pilicornis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* None reported.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July					1	
August						
September						
October						
November						
December						

No habitus images are available.

***Pygolampis bidentata* (Goeze) (Reduviidae)**

*Common name.* The Quatford Assassinbug.

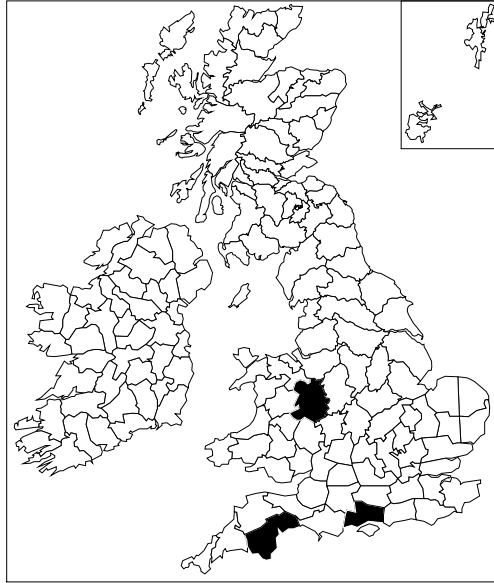
*First report.* D&S1865 as *Pygolampis bifurcata*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from beneath a piece of sandstone, sweeping a railway bank, and sweeping in a damp place.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May					1	
June						
July						
August						
September						
October						
November						
December						

No habitus images are available.

***Reduvius personatus* (Linnaeus) (Reduviidae)**

*Common name.* The Domestic Assassinbug.

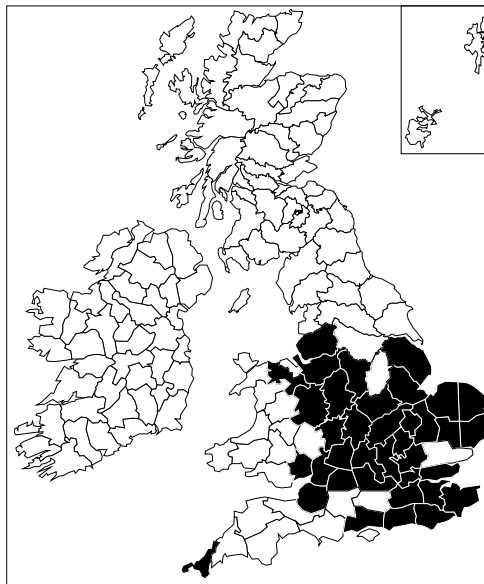
*First report.* D&S1865 as *Reduvius personatus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from houses (attic (n), cellar, ceiling, roof void (n), kitchen (n), doorstep, and outside wall), shop window, garden fence, office (w), school, warehouse (n), coat in a garden, sack, mill, deer park (n), druggist's shop (n), and derelict theatre (w); specifically from bird nests (w), wasp nests, and in hollows and under loose bark on old oaks (n). It has been taken at light, and in a spider's web. Seen carrying a load of dusty fibrous matter on its back, biting a human, and feeding on larvae and pupae of the beetle *Ptinus fur* (n). In culture punctured harvest spiders (n), and fed on supplied living flies and a *Cimex lectularius* (n).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March					1	
April					2	
May						
June				N	3	2
July	4	1	2	2	2	
August			1		1	
September		N				
October						
November						
December						



## A REVIEW OF THE PUBLISHED RECORDS FOR THE HEMIPTERA-HETEROPTERA OF THE BRITISH ISLES: (18) THE FAMILY NABIDAE

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### Introduction

This is the eighteenth part of the review of the records of Hemiptera-Heteroptera in the British Isles published in the specialist entomological literature, which covers the Nabidae, up to the end of 2019. The scope, objectives and method of this work are set out in the Introduction (first part) of the review (Hem7:1-5). The vice-county records for the bugs have already been presented elsewhere in this journal, and are summarised in the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The remaining results of the review are given below, which are limited to records explicitly stated as being from the British Isles. These results comprise a list of all the heximonth records, that is records dated with sufficient precision to be assigned to a specific heximonth (Hem5:52-68); and a list of all the detailed records, that is, records that are not limited to date and location and refer to other aspects of the species' natural history. Duplicate records, the same record published in different articles, are excluded, with only the original record included. There is also a complete bibliography of all the references consulted in this part of the review. These are grouped by the names used in the literature, and thereby provide a synonymy for each species, for those sources listed in the Introduction. There is no reference list, instead references are cited in-line using the method of abbreviation described in the Introduction. Records which refer to ambiguous species names (Hem2:4-8, Hem3:15-17, Hem5:14-15 & Hem5:114-118) are listed separately, under a heading marked 'AMBIGUOUS'. The article is concluded with a tabulated summary of the results of the review, which excludes ambiguous records.

What is not stated in this review (the 'gaps') is arguably just as important as what is stated, which hopefully will provide an impetus to future research on the Hemiptera-Heteroptera in these islands. Consequently, I would be grateful to hear from any reader who has information which is new to that collected in this review, and who would be willing to publish it.

### Heximonth records

#### *Himacerus apterus* (Fabricius) (Nabidae)

- 05D: 20 May 1990 [Boconnoc Park, Cornwall. BJENH18:54]  
 05F: 30 May 2000 [Ethy Park, Cornwall. BJENH18:54] 29 May 2011 [Fancott Meadows NR, Bedfordshire. Nymph. HN17/18:7] 30 May 1914 [Royston, Hertfordshire. Nymph. LondonHets] 31 May 2005 [Southwater Country Park, VC13. Hem6:231]  
 06A: 4 June 1997 [Chase Wood, VC13. Hem6:231] 1 June 1991 [Speech House Oaks, Gloucestershire. GloucsHets]  
 06D: 18 June 1950 [Bookham, Surrey. Female macropter. EMM87:242-244] 18 June 1957 [Ruislip NR, Middlesex. Nymphs. LondonHets]  
 06E: 22 June 1911 [Epping Forest, Essex. Nymphs. LondonHets] 25 June 1944 [Hadley Wood, Hertfordshire. LondonHets]  
 06F: 27 June 1955 [Ruislip NR, Middlesex. Nymphs. LondonHets]  
 07A: 3 July 1956 [Bricket Wood Common, Hertfordshire. Nymphs. LondonHets] 1 July 1945 [East Malling, Kent. Female macropter. EMM87:242-244]  
 07B: 7 July 1951 [Amersham, Buckinghamshire. Nymph. LondonHets] 6 July 1955 [Darenth Wood, Kent. Nymphs. LondonHets] 8 July 1911 [Epping Forest, Essex. Nymphs. LondonHets]  
 07C: 14 July 1990 [Beachley Point, Gloucestershire. GloucsHets] 12 July 1958 [Riddlesdown, Surrey. Nymph. LondonHets]  
 07D: 16 July 1992 [Arnold's Spring, Sherborne, Gloucestershire. GloucsHets] 16 July 1989 [Lancut NR, Gloucestershire. GloucsHets]

- 07E: 22 July 1955 [Cheam, Surrey. Nymph. LondonHets] 23 July 1954 [Cliffe, Kent. LondonHets] 24 July 1979 [Dagnam Park, Essex. LondonHets] 22 July 1950 [Oxshott Heath, Surrey. Nymph. LondonHets] 24 July 1956 [Ruislip NR, Middlesex. Nymphs. LondonHets] 21 July 1952 [West End Common, Surrey. LondonHets]
- 07F: 27 July 1942 [Paddock Wood, Kent. Male and female macropters. EMM87:242-244] 29 July 1955 [Ruislip NR, Middlesex. Nymphs. LondonHets] 29 July 1958 [Ruislip NR, Middlesex. Nymphs. LondonHets] 29 July 1952 [West End Common, Surrey. LondonHets]
- 08A: 1 August 1954 [Chorley Wood, Hertfordshire. LondonHets] 4 August 1955 [Esher Common, Surrey. Adult and nymph. LondonHets] 4 August 1992 [Ouse Washes, Welches Dam, Cambridgeshire. Female macropter. BJENH7:174-175] 5 August 2004 [Whisby Nature Park, VC53. Hem3:86]
- 08B: 10 August 1958 [Bookham Common, Surrey. Male and nymph. LondonHets] 9 August 1980 [Chalk Lane, The King's Forest, VC26. Hem4:19] 10 August 1981 [Chalk Lane, The King's Forest, VC26. Hem4:19] 6 August 1955 [Chilworth, Surrey. LondonHets] 8 August 1935 [East Malling, Kent. Female macropter. EMM87:242-244] 8 August 2007 [Epsom Racecourse. HN10:11] 7 August 1983 [Foulnden area of Norfolk. Male macropter. ERJV96:36] 7 August 1983 [Foulnden area of Norfolk. ERJV96:36] 6 August 1944 [Ruislip, Middlesex. LondonHets] 8 August 1963 [Shere, Surrey. Nymph. LondonHets] 9 August 1984 [Totteridge, Hertfordshire. LondonHets] 10 August 2002 [Woodsetts, VC63. HN7:15] 10 August 1941 [Wormley Wood, Hertfordshire. LondonHets]
- 08C: 15 August 1936 [Ashtead, Surrey. LondonHets] 12 August 1942 [Bookham Common, Surrey. LondonHets] 12 August 1980 [Chalk Lane, The King's Forest, VC26. Hem4:19] 13 August 1954 [Cheam, Surrey. Male and nymph. LondonHets] 13 August 1942 [East Malling, Kent. Male and female macropters. EMM87:242-244] 15 August 1947 [East Peckham, Kent. Female macropter. EMM87:242-244] 11 August 1934 [Eynsford, Kent. LondonHets] 11 August 1979 [Grays Thurrock, Essex. LondonHets] 11 August 1962 [Ockham Common, Surrey. Nymph. LondonHets] 13 August 1942 [Paddock Wood, Kent. Male macropters. EMM87:242-244] 13 August 1954 [West End Common, Surrey. Adult and nymph. LondonHets] 11 August 1947 [Woodcock Wood, Bedfordshire. EMM86:6-8]
- 08D: 20 August 1948 [Blackhafield's Plantation, Bedfordshire. Nymph. EMM86:6-8] 16 August 1955 [Bookham Common, Surrey. Males and females. LondonHets] 16 August 1953 [Bookham Common, Surrey. LondonHets] 16 August 1948 [Bookham Common, Surrey. Nymph. LondonHets] 18 August 1925 [Buckhurst Hill, Essex. LondonHets] 18 August 1976 [Darenth Wood, Kent. LondonHets] 19 August 1995 [Field Farm, Nympsfield, Gloucestershire. GloucsHets] 18 August 1957 [Ranmore Common, Surrey. LondonHets] 20 August 1947 [Woodcock Wood, Bedfordshire. EMM86:6-8]
- 08E: 21 August 1904 [Darenth Wood, Kent. LondonHets] 21 August 1954 [Esher Common, Surrey. Adult. LondonHets] 22 August 1941 [Guildford, Surrey. Male and female macropter. EMM87:242-244] 21 August 1954 [Oxshott Heath, Surrey. LondonHets]
- 08F: 27 August 1955 [Bookham Common, Surrey. Male and females. LondonHets] 27 August 1950 [Box Hill, Surrey. Female macropter. EMM87:242-244] 27 August 1950 [Boxhill. Including a macropterous female. PTSLENHS1950-51:77-78] 30 August 1959 [Chartham, Kent. LondonHets] 30 August 1964 [Cliffe, Kent. LondonHets] 30 August 1959 [Halling, Kent. PTSLENHS1959:91] 26 August 1957 [Norbury Park, Surrey. LondonHets] 27 August 1959 [Wheathampstead, Hertfordshire. EMM95:185]
- 09A: 2 September 1964 [Downe, Kent. LondonHets] 2 September 1951 [Oxshott Heath, Surrey. LondonHets] 4 September 1954 [Riddlesdown, Surrey. PTSLENHS1954-55:93-94] 1 September 1955 [Ruislip NR, Middlesex. Adults. LondonHets] 4 September 1937 [West Byfleet, Surrey. Female macropter. EMM87:242-244] 2 September 1950 [Wilton, Wiltshire. EMM88:45] 5 September 1960 [Wrotham, Kent. LondonHets]
- 09B: 10 September 1950 [Ash Vale, Surrey. Female macropter. EMM87:242-244] 10 September 1950 [Ash Vale, Surrey. Macropterous female in copula with normal male. PTSLENHS1950-51:36] 10 September 1938 [Ashtead, Surrey. LondonHets] 10 September 1994 [Bledington Heath, Gloucestershire. GloucsHets] 9 September 1935 [Bookham Common, Surrey. LondonHets] 10 September 1907 [Burnham Beeches, Buckinghamshire. LondonHets] 8

- September 1935 [Byfleet, Surrey. PTSLENHS1935-36:27-28] 7 September 1963 [Darenth Wood, Kent. Male and females. LondonHets] 10 September 2007 [Epsom Racecourse. HN10:11] 7 September 1968 [Farningham Wood, Kent. LondonHets] 7 September 1941 [Guildford, Surrey. Male. LondonHets] 9 September 1941 [Guildford, Surrey. Male. LondonHets] 9 September 1958 [Ruislip NR, Middlesex. Adults. LondonHets] 8 September 1991 [Whelford Pools, Gloucestershire. GloucsHets]
- 09C: 14 September 1947 [Ashted, Surrey. LondonHets] 15 September 1902 [Bexley, Kent. LondonHets] 12 September 1936 [Byfleet, Surrey. PTSLENHS1936-37:39-40] 13 September 1978 [Dagnam Park, Essex. LondonHets] 15 September 1942 [East Mallong, Kent. Female macropter. EMM87:242-244] 11 September 1911 [Epping Forest, Essex. LondonHets] 14 September 1952 [Eynsford, Kent. PTSLENHS1952-53:86-87] 11 September 1954 [Fawkham, Kent. LondonHets] 13 September 1941 [New Hythe, Kent. Female macropter. EMM87:242-244]
- 09D: 20 September 1934 [Blandford, Dorset. Male and female macropters. EMM87:242-244] 18 September 1930 [Bookham Common, Surrey. Male. LondonHets] 17 September 1995 [Lechlade Reserve, Gloucestershire. GloucsHets] 20 September 1983 [Mitcham Common, Surrey. LondonHets] 18 September 1955 [Otford, Kent. LondonHets] 17 September 1898 [West Wickham, Kent. LondonHets] 17 September 1959 [Wisbech, Cambridgeshire. EMM95:185]
- 09E: 23 September 1951 [Farnborough, Kent. LondonHets] 23 September 1951 [Farningham Woods, Kent. PTSLENHS1951-52:81] 25 September 1934 [Ryarsh, Kent. LondonHets] 22 September 1946 [Stevington Scrub, Bedfordshire. EMM86:6-8]
- 09F: 26 September 1964 [Bookham Common, Surrey. Female. LondonHets] 28 September 1951 [Bookham Common, Surrey. LondonHets] 29 September 1963 [Chorley Wood Common, Hertfordshire. LondonHets] 31 September 1905 [Darenth Wood, Kent. LondonHets] 29 September 1941 [Wheatfen Broad, Norfolk. Female macropter. EMM87:242-244]
- 10A: 2 October 1955 [Boxhill, Surrey. LondonHets]
- 10B: 9 October 1955 [Bookham Common, Surrey. Male and females. LondonHets] 7 October 1962 [Epping Forest, Essex. LondonHets]
- 10C: 13 October 1934 [Blandford, Dorset. Male and female macropters. EMM87:242-244] 14 October 1956 [Bookham Common, Surrey. Male. LondonHets]
- 10E: 23 October 1951 [Esher Common, Surrey. LondonHets]
- 10F: 28 October 1934 [Blandford, Dorset. Adults including female macropters. EMM71:113-114] 29 October 1934 [Blandford, Dorset. Female macropters. EMM87:242-244] 30 October 2013 [St Nicholas Fields LNR, York. Hem6:237]
- 11B: 10 November 1934 [Blandford, Dorset. Macropter. EMM87:242-244]

*Himacerus boops* (Schjødt) (Nabidae)

- 06B: 10 June 1953 [Hedgerley, Buckinghamshire. Nymph. EMM89:303]
- 06D: 17 June 1960 [Bald Hill, Oxfordshire. Female brachypter. EMM96:152]
- 06F: 30 June 1963 [Faversham Creek, Kent. Nymphs. PTSLENHS1963Part1:68-69] 30 June 1935 [Wescott, Surrey. LondonHets]
- 07C: 11 July 1954 [Coombe Hill, Buckinghamshire. Nymphs. LondonHets] 12 July 1952 [Oxshott Heath/Esher Common, Surrey. PTSLENHS1952-53:83-84]
- 07D: 18 July 1971 [Hotham Carrs, SE Yorkshire. Male. EMM108:231]
- 07E: 25 July 1964 [Bookham Common, Surrey. LondonHets] 24 July 1954 [Burnham Beeches, Buckinghamshire. Nymphs. LondonHets]
- 07F: 30 July 1951 [Bookham Common, Surrey. PTSLENHS1951-52:13] 30 July 1934 [Imperial College Biological Field Station, Slough. Macropter. TSBE2:47-67] 29 July 1899 [Mildenhall, Suffolk. SuffolkHets] 29 July 1920 [Tidworth Pennings, Wiltshire. Macropter. EMM57:18-19]
- 08A: 1 August 1960 [Chobham, Surrey. LondonHets] 2 August 1954 [Coombe Hill, Buckinghamshire. Macropterous female. EMM90:301] 1-2 August 1938 [Harpenden, Hertfordshire. LondonHets] 5 August 1901 [West Walton, Norfolk. EMM38:80]
- 08B: 7 August 1997 [Farnham Park, Surrey. EMM134:265-266] 8 August 1966 [Oxenbourne NR, VC11. Hem3:105] 9 August 1908 [West End Common, Surrey. LondonHets]

- 08C: 11 August 1944 [Gomshall, Surrey. Female. LondonHets] 14 August 1905 [Slindon, Sussex. EMM43:110]  
 08E: 25 August 1962 [Trottisccliffe, Kent. PTSLENHS1962:99-100]  
 09B: 9 September 1953 [Grounds of Pest Infestation Laboratory. LondonHets] 7 September 1938 [Orsett, South Essex. EMM79:199]  
 11A: 2 November 1973 [Hatfield Lings, near Doncaster. EMM112:238]

*Himacerus major* (A. Costa) (Nabidae)

- 03B: 8 March 1953 [Mitcham Common, Surrey. LondonHets]  
 05F: 28 May 1912 [Royston, Hertfordshire. Nymphs. LondonHets]  
 06B: 7 June 1919 [Royston, Hertfordshire. Nymphs. LondonHets]  
 06F: 30 June 1963 [Faversham Creek, Kent. Nymphs. PTSLENHS1963Part1:68-69] 30 June 1963 [Weybridge, Surrey. LondonHets]  
 07A: 2 July 1980 [Chelsea Physic Garden, Middlesex. LondonHets] 3 July 1976 [Dagnam Park, Essex. LondonHets] 4 July 1989 [Nare Head, Cornwall. CornwallHets]  
 07C: 14 July 1943 [Finchley, Middlesex. LondonHets] 11 July 1982 [Gilkicker Point, VC11. Hem3:105] 14 July 1933 [Imperial College Biological Field Station, Slough. TSBE2:47-67] 12 July 1952 [Oxshott Heath/Esher Common, Surrey. PTSLENHS1952-53:83-84] 13 July 2006 [South-facing slopes of Steeple Point, Cornwall. CornwallHets] 12 July 1964 [Swanscombe, Kent. LondonHets]  
 07D: 20 July 1964 [Blackheath, Kent. Nymphs. LondonHets] 17 July 1925 [Chalfont St Peter, Buckinghamshire. Nymph. LondonHets] 16 July 1933 [Chobham, Surrey. Male. LondonHets] 19 July 1933 [Woking, Surrey. LondonHets]  
 07E: 23 July 2009 [Dell Quay, VC13. Hem6:231] 23 July 1960 [Hendon, Middlesex. LondonHets] 24 July 1950 [St John's Wood, Middlesex. LondonHets]  
 07F: 29 July 1992 [Bettisfield Moss, Shropshire. Hem5:156] 31 July 1930 [Farley Heath, Surrey. Female. LondonHets] 29 July 1954 [Little Chalfont, Buckinghamshire. LondonHets] 28 July 1957 [Oxshott Heath, Surrey. LondonHets] 29 July 1957 [Oxshott Heath, Surrey. LondonHets] 31 July 1956 [Wimbledon Common, Surrey. LondonHets]  
 08A: 3 August 1947 [Cockhayne Hatley Wood, Bedfordshire. EMM86:6-8]  
 08B: 10 August 1962 [Banstead Downs, Surrey. LondonHets] 6-8 August 1979 [Crantock Beach, Cornwall. CornwallHets] 10 August 1999 [Freathy, Cornwall. CornwallHets] 8 August 1944 [Hockliffe, Bedfordshire. EMM81:183-185] 8 August 1954 [Treborsh, Caernarvonshire. Females. EMM92:54-64]  
 08C: 11 August 1979 [Grays Thurrock, Essex. LondonHets] 12 August 1962 [Higham Marshes, Kent. PTSLENHS1962:97-98] 15 August 1936 [Llandudno. EMM73:90-91]  
 08D: 16 August 1951 [Gravesend, Kent. LondonHets] 17 August 1942 [Heston, Middlesex. LondonHets] 16 August 1945 [Near Hipsey Spinney, Fancott, Bedfordshire. EMM86:6-8] 20 August 1951 [West End Common, Surrey. LondonHets]  
 08E: 21 August 2002 [Boscawell Cliff, Cornwall. CornwallHets] 21 August 2002 [Bossiney Cliffs, Cornwall. CornwallHets] 24 August 1952 [Oxshott Heath, Surrey. LondonHets] 23 August 1939 [Woodwalton Fen, Huntingdon. Male. EMM93:49-51]  
 08F: 31 August 1936 [Boxhill, Surrey. Male. LondonHets] 30 August 1936 [Chobham, Surrey. Male. LondonHets] 29 August 1925 [Epping Forest, Essex. LondonHets] 30 August 1959 [Halling, Kent. PTSLENHS1959:91] 27 August 1949 [Hampstead Heath, Middlesex. LondonHets] 30 August 1964 [Longfield, Kent. LondonHets] 30 August 2008 [Slopes of Bredon Hill, Eckington, Worcestershire. Adult. EMM145:32] 31 August 2006 [West Pentire Farm, Crantock, Cornwall. CornwallHets]  
 09A: 2 September 1967 [Bromley, Kent. LondonHets] 5 September 1943 [Daglingworth, Gloucestershire. GloucsHets] 5 September 1896 [Lee, Kent. LondonHets] 3 September 1964 [Longfield, Kent. LondonHets] 2 September 1950 [Oxshott, Surrey. PTSLENHS1950-51:78-79] 3 September 1949 [Rickmansworth, Hertfordshire. LondonHets]  
 09B: 7 September 1976 [Darenth Wood, Kent. LondonHets] 9 September 1985 [Daymer Bay, Cornwall. CornwallHets] 6 September 1953 [Epsom Common, Surrey. LondonHets] 7

- September 1954 [Harpenden, Hertfordshire. LondonHets] 8 September 1894 [Lee, Kent. LondonHets]
- 09C: 15 September 1957 [Benfleet, Essex. LondonHets] 13 September 1944 [Fancott, near Toddington, Bedfordshire. EMM81:183-185] 15 September 1894 [Kidbrooke, Kent. LondonHets] 13 September 1960 [Oxshott Heath, Surrey. LondonHets] 15 September 1963 [Oxshott Heath, Surrey. LondonHets]
- 09D: 20 September 1992 [Coverack, Cornwall. CornwallHets] 18 September 1921 [Epping Forest, Essex. LondonHets] 19 September 1948 [Epping Forest, Essex. LondonHets] 16 September 1963 [Epping Forest, Essex. LondonHets] 16 September 1992 [Glendurgan Gardens, Cornwall. CornwallHets] 16 September 1993 [Glendurgan Gardens, West Cornwall. BJENH13:106-107] 16 September 1931 [Horsell, Surrey. LondonHets] 17 September 1957 [Llowses, Radnorshire. EMM94:183] 20 September 1996 [Marazion, Cornwall. CornwallHets] 20 September 1992 [Predannack, Cornwall. CornwallHets]
- 09E: 23 September 1951 [Farningham Woods, Kent. PTSLENHS1951-52:81] 25 September 1953 [Fawkham, Kent. LondonHets] 24 September 1992 [Kennack Sands, Cornwall. CornwallHets] 23 September 1993 [Porthallow, West Cornwall. BJENH13:106-107] 22 September 1963 [Weybridge, Surrey. LondonHets]
- 09F: 28 September 1946 [Ashted, Surrey. PTSLENHS1946-47:77] 29 September 1963 [Chorley Wood, Hertfordshire. LondonHets]
- 10A: 4 October 1921 [Otford, Kent. LondonHets]
- 10C: 15 October 1950 [Ranmore, Surrey. PTSLENHS1950-51:81-82]
- 10D: 20 October 1963 [Bookham Common, Surrey. LondonHets]
- 10E: 23 October 1951 [West End Common, Surrey. LondonHets]
- 11A: 3 November 1894 [Blackheath, Kent. LondonHets] 2 November 1944 [Houghton Regis, Bedfordshire. EMM81:183-185] 5 November 1961 [Otford, Kent. LondonHets] 4 November 1920 [Woking, Surrey. LondonHets]
- 11B: 9 November 1976 [Dagnam Park, Essex. LondonHets]
- 11D: 19 November 1925 [Tottenham, Middlesex. LondonHets]

*Himacerus mirmicoides* (O. Costa) (Nabidae)

- 01D: 19 January 1929 [Howth, County Dublin. IrelandHets]
- 03D: 19 March 1921 [Tatsfield, Surrey. LondonHets]
- 03F: 31 March 1974 [Truro, Cornwall. CornwallHets]
- 04C: 14 April 1946 [Gravesend, Kent. LondonHets]
- 04D: 17 April 1911 [Chipstead, Surrey. Female. LondonHets]
- 04F: 30 April 1961 [Coulsdon, Surrey. LondonHets]
- 05A: 4 May 2014 [Brandon, VC26. Hem5:188] 2 May 2000 [Carn Barges, Cornwall. CornwallHets]
- 05B: 7 May 1905 [Buckland Hill, Surrey. Female. LondonHets]
- 05C: 11 May 1912 [Abinger Hammer, Surrey. Nymph. LondonHets] 15 May 1989 [Cape Cornwall, Cornwall. CornwallHets] 11 May 1919 [Chipstead, Surrey. Female. LondonHets] 15 May 1993 [Coombe Hill Canal, Gloucestershire. GloucsHets]
- 05D: 16 May 1931 [St Martha's, Chilworth, Surrey. PSLENHS1931-32:56]
- 05E: 22 May 1989 [Zennor Head, Cornwall. CornwallHets]
- 05F: 28 May 1893 [Darenth, Kent. LondonHets] 29 May 1947 [Lampton, Middlesex. Adult. LondonHets] 30 May 1914 [Royston, Hertfordshire. Nymph. LondonHets]
- 06B: 10 June 1906 [Buckland Hill, Surrey. Female. LondonHets] 8 June 1963 [Swanscombe, Kent. LondonHets]
- 06C: 13 June 1897 [Horsley, Surrey. LondonHets]
- 06D: 19 June 1989 [Cotehele, Cornwall. CornwallHets] 17 June 1936 [Hillingdon, Middlesex. Nymphs. Ent71:148-153] 19 June 1987 [Whitesand Bay, Cornwall. CornwallHets]
- 06E: 25 June 2013 [Aldridge Brick Quarry (Brick Kiln Lane), VC39. Hem3:95] 21 June 1955 [Bookham Common, Surrey. Nymph. LondonHets] 22 June 1989 [Cadsonbury, Cornwall. CornwallHets] 25 June 1977 [Northward Hill NNR, Kent. PTBENHS11:67-68] 21 June 1989

- [Pendower Beach, Cornwall. CornwallHets] 23 June 2003 [Poldhu Cove, Cornwall. CornwallHets] 25 June 2004 [Trewavas Point, Cornwall. CornwallHets]
- 06F: 28 June 1920 [Camberley, Surrey. Nymph. LondonHets] 30 June 1944 [Lampton, Middlesex. Nymph. LondonHets]
- 07A: 3 July 1989 [Cornwall. CornwallHets] 4 July 1989 [Nare Head, Cornwall. CornwallHets] 5 July 1989 [Nare Head, Cornwall. CornwallHets] 3 July 1989 [Porthbeor Beach, Cornwall. CornwallHets] 5 July 1944 [Starcross, South Devon. Ent88:89-91] 3 July 1979 [Towan Beach, Cornwall. CornwallHets] 5 July 1989 [Treluggan Cliff, Cornwall. CornwallHets]
- 07B: 10 July 1955 [Bookham Common, Surrey. Nymph. LondonHets] 9 July 1952 [Flagstaff Quarry, near Penmon, Anglesey. Nymph. EMM123:76] 9 July 1920 [Porthcothan Bay, Cornwall. Nymphs. ERJV33:21-25] 10 July 2011 [Witley Common, Surrey. Hem6:244] 7 July 1957 [Wyre Forest, Shropshire. EMM94:93]
- 07C: 14 July 1958 [Bookham Common, Surrey. Nymph. LondonHets] 15 July 1984 [Flagstaff Quarry, near Penmon, Anglesey. Nymph. EMM123:76] 12 July 1952 [Oxshott Heath/Esher Common, Surrey. Nymphs. PTSLENHS1952-53:83-84] 11 July 2001 [Pendower Beach, Cornwall. CornwallHets] 13 July 2004 [Porth Joke, Cornwall. CornwallHets] 11 July 2006 [Prussia Cove, Cornwall. Nymphs. CornwallHets] 11 July 2003 [West Pentire Headland, near Newquay, West Cornwall. BJENH18:165-170]
- 07D: 17 July 1955 [Aberystwyth, Cardiganshire. Nymphs. EMM92:54-64] 19 July 2006 [Boheterick, Cornwall. CornwallHets] 19 July 1992 [Eyford Warren, Gloucestershire. GloucsHets] 20 July 2005 [Saltash, Cornwall. CornwallHets]
- 07E: 25 July 1946 [Boxmoor, Hertfordshire. Nymph. EMM85:249-253] 24 July 1906 [Chale, Isle of Wight. Nymph. EMM57:57-61 & 79-81] 24 July 1906 [Chale, Isle of Wight. Nymphs. EMM57:136-138] 23 July 1952 [Taplow, Buckinghamshire. Adults and nymphs. EMM88:255] 21 July 2002 [Tremayne Quay, Cornwall. Nymph. CornwallHets]
- 07F: 27 July 2017 [Beside M4, VC7. Hem6:264] 28 July 1983 [Boxhill, Surrey. LondonHets] 29 July 1983 [Browndown, Hampshire. Winged form. PTBENHS17:18]
- 08A: 5 August 1952 [Datchet, Buckinghamshire. LondonHets] 4 August 1955 [Esher Common, Surrey. Males, females and nymphs. LondonHets] 4 August 1933 [Imperial College Biological Field Station, Slough. TSBE2:47-67] 3 August 1961 [Otford, Kent. Nymph. LondonHets] 3 August 2006 [Pennywilgie Point, Cornwall. CornwallHets] 2 August 2006 [Pentire Farm, Cornwall. CornwallHets] 2 August 2006 [Pentireglaze, Cornwall. CornwallHets] 1 August 2005 [Persore, Worcestershire. Female macropter. EMM141:248] 1 August 1948 [Rickmansworth, Hertfordshire. LondonHets] 3 August 1913 [Sandown, Isle of Wight. Nymphs. EMM57:136-138] 4 August 1909 [Tubney. Nymph. EMM57:136-138] 1 August 2019 [Wanborough Plain, VC7. Hem6:264] 3 August 1941 [Wormley Wood, Hertfordshire. LondonHets]
- 08B: 10 August 1958 [Bookham Common, Surrey. Nymph. LondonHets] 6 August 1952 [Datchet, Buckinghamshire. Including macropters. EMM88:255] 9 August 1897 [Fetcham, Surrey. LondonHets] 10 August 1999 [Freathy, Cornwall. CornwallHets] 6 August 1909 [Ryde, Isle of Wight. Nymph. AntGuests] 10 August 1913 [Sandown, Isle of Wight. Nymphs. EMM57:136-138]
- 08C: 12 August 1960 [Beechwood Wood, Studham, Bedfordshire. Macropter. EMM97:32-33] 12 August 1942 [Bookham Common, Surrey. LondonHets] 12 August 1967 [Bromley, Kent. LondonHets] 12 August 1949 [Byfleet, Surrey. LondonHets] 13 August 1954 [Cheam, Surrey. LondonHets] 11 August 1979 [Grays Thurrock, Essex. LondonHets] 11 August 2012 [Narborough, VC55. Hem3:95] 14 August 1989 [Red River Valley, Cornwall. CornwallHets] 15 August 1993 [Sedbury Cliff, Gloucestershire. GloucsHets]
- 08D: 16 August 1955 [Bookham Common, Surrey. Nymph. LondonHets] 19 August 1933 [Eynsford, Kent. PTSLENHS1933-34:32-33] 19 August 1945 [Guildford, Surrey. LondonHets] 17 August 1920 [Near Chichester. Nymph. ERJV33:21-25] 20 August 2002 [Porthcurnack, Cornwall. CornwallHets] 20 August 1989 [Sandhurst NR, Gloucestershire. GloucsHets] 19 August 1985 [Severn Bank, Broad Oak, Newnham, Gloucestershire. GloucsHets] 19 August 1943 [Walham, near Gloucester. EMM80:18-19]

- 08E: 21 August 1951 [Ash Vale, Surrey. Macropter. EMM87:274] 22 August 1964 [Brook, Kent. PTSLENHS1964:37-38] 24 August 2006 [Kynance Cove, Cornwall. CornwallHets] 22 August 2006 [Lansallos Cliff and Cove, Cornwall. CornwallHets] 21 August 1954 [Oxshott Heath, Surrey. LondonHets] 22 August 1945 [Rickmansworth, Hertfordshire. Nymph. LondonHets] 25 August 1964 [Shoreham, Kent. LondonHets] 25 August 2005 [South Penquite Farm, Cornwall. CornwallHets] 25 August 1952 [West End Common, Surrey. LondonHets]
- 08F: 27 August 1896 [Bookham Common, Surrey. LondonHets] 27 August 1950 [Box Hill, Surrey. PTSLENHS1950-51:77-78] 29 August 1896 [Boxhill, Surrey. LondonHets] 26 August 1953 [Dartford Marshes, Kent. Nymph. LondonHets] 28 August 1946 [Gravesend, Kent. Nymph. LondonHets] 29 August 1942 [Guildford, Surrey. LondonHets] 29 August 2006 [Mawnan Church to Porth Saxon, Cornwall. CornwallHets]
- 09A: 4 September 1949 [Ash Vale, Surrey. Nymphs and adults, including a macropter. PTSLENHS1949-50:78] 2 September 1950 [Esher Common, Surrey. LondonHets] 1 September 1955 [Harpenden, Hertfordshire. LondonHets] 2 September 1950 [Oxshott. PTSLENHS1950-51:78-79] 2 September 1950 [Oxshott Heath, Surrey. LondonHets] 3 September 1898 [Reigate, Surrey. LondonHets]
- 09B: 10 September 1950 [Ash Vale, Surrey. Including a macropterous female. PTSLENHS1950-51:79-80] 8 September 1935 [Byfleet, Surrey. PTSLENHS1935-36:27-28] 8 September 1992 [Churchdown Hill, Gloucestershire. GloucsHets] 10 September 1960 [Darenth, Kent. LondonHets] 9 September 1985 [Daymer Bay, Cornwall. CornwallHets] 10 September 1906 [Hunstanton. Macropter. EMM57:57-61 & 79-81] 9 September 1944 [Mounton, Chepstow. EMM91:143] 7 September 1945 [Purley, Surrey. LondonHets] 9 September 1922 [Ventnor, Isle of Wight. Nymph. ERJV35:1-9] 10 September 1951 [West End Common, Surrey. LondonHets]
- 09C: 15 September 1992 [Cadgwith, Cornwall. CornwallHets] 14 September 1992 [Clifflet at north end of Loe Bar, Cornwall. CornwallHets] 14 September 1952 [Eynsford, Kent. LondonHets] 15 September 1934 [Imperial College Biological Field Station, Slough. TSBE2:47-67] 11 September 1985 [Stowe Wood, Cornwall. CornwallHets] 11 September 1985 [Tidna Valley, Cornwall. CornwallHets] 12 September 1935 [Uxbridge, Middlesex. Ent71:148-153] 11 September 1950 [West End Common, Surrey. LondonHets] 14 September 1934 [West Hyde, Hertfordshire. LondonHets]
- 09D: 20 September 1992 [Coverack, Cornwall. CornwallHets] 17 September 1976 [Darenth Wood, Kent. LondonHets] 16 September 1993 [Glendurgan Gardens, West Cornwall. BJENH13:106-107] 17 September 1995 [Lechlade Reserve, Gloucestershire. GloucsHets] 20 September 1998 [Poltesco East, Cornwall. CornwallHets] 20 September 1992 [Predannack, Cornwall. CornwallHets] 17 September 1906 [Wellington College. Nymph. EMM57:136-138]
- 09E: 25 September 1955 [Bean, Kent. LondonHets] 23 September 1951 [Farnborough, Kent. LondonHets] 23 September 1951 [Farningham Woods, Kent. PTSLENHS1951-52:81] 25 September 1953 [Fawkham, Kent. LondonHets] 24 September 1992 [Kennack Sands, Cornwall. CornwallHets] 25 September 1998 [Lizard Head, Cornwall. CornwallHets] 23 September 1993 [Porthallow, West Cornwall. BJENH13:106-107] 21 September 1998 [Porthbeer Cove, Cornwall. CornwallHets] 23 September 1992 [Porthoustock, Cornwall. CornwallHets] 25 September 1992 [Praa Sands, Cornwall. CornwallHets] 22 September 1992 [Trebah Gardens, Cornwall. CornwallHets]
- 09F: 26 September 1964 [Bookham Common, Surrey. Adults. LondonHets] 26 September 2005 [Chynhalls Point, Cornwall. CornwallHets]
- 10A: 1 October 1950 [Carshalton, Surrey. Females. LondonHets] 1 October 1955 [Orsett, Hertfordshire. LondonHets] 1 October 1951 [Oxshott Heath, Surrey. LondonHets] 4 October 1954 [Stone, Kent. LondonHets] 1 October 2013 [Thorne Moor, VC63. Macropter. HN21:7] 5 October 1924 [Tubney, Berkshire. Male macropter. EMM60:261] 1 October 1944 [Wernde, St Weonards, Hereford. Male. EMM93:49-51]
- 10B: 9 October 1955 [Bookham Common, Surrey. Adult. LondonHets] 9 October 1951 [Coulsdon, Surrey. LondonHets] 9 October 1963 [Darenth, Kent. LondonHets] 8 October 1946 [Gravesend, Kent. Adults. LondonHets]

- 10C: 15 October 1951 [Esher Common, Surrey. LondonHets] 15 October 1953 [Esher Common, Surrey. LondonHets] 13 October 1924 [Tubney, Berkshire. Male macropter. EMM60:261] 11 October 1924 [Tubney, Berkshire. Male macropters. EMM60:261]  
 10D: 19 October 1940 [Abinger Hammer, Surrey. Male. LondonHets]  
 10E: 22 October 1959 [Hounslow Heath, Middlesex. Adult. LondonHets]  
 10F: 31 October 2015 [Albana Wood, Ickworth, VC26. Hem5:188]  
 11A: 5 November 1905 [Oxshott Heath, Surrey. Female. LondonHets]  
 11B: 10 November 1945 [Kent. EMM82:236]  
 12B: 7 December 1950 [The Hog's Back, Surrey. LondonHets]

*Nabis brevis* Scholtz (Nabidae)

- 08E: 25 August 1900 [Along the canal between Byfleet and Weybridge. EMM36:227-228]  
 08F: 30 August 1902 [Along the canal between Byfleet and Weybridge. Males. EMM38:269-270]  
 09D: 20 September 1902 [Along the canal between Byfleet and Weybridge. Males. EMM38:269-270]  
 09E: 25 September 1902 [Along the canal between Byfleet and Weybridge. Both sexes. EMM38:269-270]  
 09F: 27 September 1913 [Byfleet, Surrey. LondonHets]

*Nabis capsiformis* Germar (Nabidae)

- 11E: 21 November 2014 [Porthgwarra, Cornwall. Female macropter. HN22:3]

*Nabis ericetorum* Scholtz (Nabidae)

- 01F: 30 January 1921 [Esher Common, Surrey. LondonHets]  
 02D: 19 February 1905 [Oxshott Heath, Surrey. Male and female. LondonHets]  
 03C: 13 March 1965 [Wisley, Surrey. LondonHets]  
 03E: 23 March 1931 [Esher Common, Surrey. PSLENHS1931-32:49]  
 04A: 4 April 1904 [Horsell Common, Surrey. Male. LondonHets]  
 04E: 24 April 1954 [Oxshott, Surrey. EMM91:90-91]  
 05B: 7 May 1911 [Oxshott Heath, Surrey. Male. LondonHets]  
 05D: 20 May 1916 [Byfleet, Surrey. LondonHets] 17 May 2014 [South of Weavers Down, VC13. Hem6:231]  
 05E: 21 May 1934 [Kilmurry, Carlow. IrelandHets] 21 May 1930 [Pyrford, Surrey. LondonHets] 25 May 1895 [Tullamore, King's County. IrelandHets]  
 05F: 31 May 1963 [Chobham Common, Surrey. LondonHets] 29 May 1944 [Hampstead Heath, Middlesex. Female. EMM81:163-164] 31 May 1934 [Kilmacanogue, Wicklow. IrelandHets]  
 06B: 8 June 1987 [Wem Moss, Shropshire. Hem5:156]  
 06C: 15 June 1958 [Esher Common, Surrey. LondonHets]  
 06D: 16 June 1900 [Banstead. PSLENHS1900:11-14] 19 June 1896 [Clonbrock, North Galway. IrelandHets] 20 June 1926 [Powerscourt Deerpark, Wicklow. IrelandHets]  
 06E: 25 June 1955 [Wimbledon Common, Surrey. LondonHets]  
 06F: 30 June 1952 [Arbrook Common, Surrey. LondonHets] 30 June 1951 [Oxshott. PTSLENHS1951-52:73-74]  
 07B: 8 July 1950 [Byfleet, Surrey. PTSLENHS1950-51:72-73] 9 July 1950 [Byfleet, Surrey. LondonHets] 7 July 1981 [Golgotham, Cornwall. CornwallHets] 6 July 1981 [Main Dale, Cornwall. CornwallHets] 10 July 1939 [Powysland, Montgomeryshire. Males. EMM92:54-64]  
 07C: 13 July 1963 [Hindhead, Surrey. LondonHets] 11 July 1926 [Magherabeg, Wicklow. IrelandHets]  
 07D: 20 July 1946 [Ashted, Surrey. PTSLENHS1946-47:73-74] 19 July 1924 [Glengarriff, West Cork. IrelandHets] 20 July 1928 [Slievenamon, South Tipperary. IrelandHets]  
 07E: 22 July 1933 [Chobham Common, Surrey. Female. LondonHets] 22 July 1950 [Oxshott, Surrey. PTSLENHS1950-51:74-75]  
 07F: 26 July 1892 [Oxshott Heath, Surrey. LondonHets]

- 08A: 4 August 1955 [Esher Common, Surrey. LondonHets] 3 August 2010 [Fleet Pond Nature Reserve, Fleet, VC12. Hem3:54] 1 August 1982 [Hamble Common, VC11. Hem3:105] 4 August 1955 [Oxshott Heath, Surrey. LondonHets]
- 08B: 10 August 1999 [Freathy, Cornwall. CornwallHets] 7 August 1933 [Horsell Common, Surrey. LondonHets]
- 08D: 18 August 1996 [Goonhilly Downs, Cornwall. CornwallHets] 20 August 1994 [Laneast Downs, Cornwall. CornwallHets] 20 August 1967 [Ockham, Surrey. PTSLENHS1967:120-121] 17 August 1952 [Stoke Common, Buckinghamshire. LondonHets] 18 August 1933 [Woking, Surrey. LondonHets]
- 08E: 23 August 1946 [Boxmoor, Hertfordshire. EMM85:249-253] 24 August 1952 [Oxshott Heath, Surrey. LondonHets] 25 August 1933 [Woking, Surrey. LondonHets]
- 08F: 30 August 1903 [Oxshott Heath, Surrey. Female. LondonHets]
- 09A: 4 September 1949 [Ash Vale, Surrey. LondonHets] 1 September 1952 [Esher Common, Surrey. LondonHets] 3 September 1933 [Horsell Common, Surrey. Male. LondonHets] 2 September 1950 [Oxshott, Surrey. PTSLENHS1950-51:78-79] 1 September 1894 [Shirley Common, Surrey. LondonHets] 5 September 1923 [St George's Down, Isle of Wight. EMM60:117-118] 4 September 1933 [Woking, Surrey. LondonHets]
- 09B: 10 September 1946 [Boxmoor, Hertfordshire. EMM85:249-253] 6 September 1953 [Chobham Common, Surrey. LondonHets] 9 September 1929 [Glenmore, Kilkenny. IrelandHets] 6 September 1902 [Oxshott Heath, Surrey. LondonHets] 7 September 1958 [Oxshott Heath, Surrey. LondonHets] 6 September 1929 [Waterford. IrelandHets] 9 September 1933 [Woking, Surrey. LondonHets]
- 09C: 12 September 1948 [Esher Common, Surrey. LondonHets] 13 September 1936 [Hayes Common, Kent. LondonHets] 14 September 1944 [Heath and Reach, Bedfordshire. EMM81:183-185] 13 September 1960 [Oxshott Heath, Surrey. LondonHets] 15 September 1963 [Oxshott Heath, Surrey. Adults and nymphs. LondonHets]
- 09D: 19 September 1931 [Albury Downs, Surrey. LondonHets] 18 September 1928 [Arklow, Wicklow. IrelandHets] 17 September 1992 [Cornwall. CornwallHets] 16 September 1963 [Epping Forest, Essex. LondonHets] 19 September 2005 [Lizard Downs, Cornwall. CornwallHets] 18 September 1957 [Llanfared, Radnorshire. EMM94:183] 16 September 1950 [Oxshott Heath, Surrey. LondonHets] 17 September 1964 [Oxshott Heath, Surrey. LondonHets] 18 September 1957 [Painscastle, Radnorshire. EMM94:183] 20 September 1992 [Predannack, Cornwall. CornwallHets] 20 September 1934 [Ruislip Common, Middlesex. Ent71:148-153]
- 09E: 22 September 1980 [Gwendreath, Cornwall. CornwallHets] 25 September 1992 [Praa Sands, Cornwall. CornwallHets] 22 September 1946 [Stevington, Bedfordshire. EMM86:6-8]
- 09F: 28 September 1946 [King's Wood, Bedfordshire. EMM86:6-8] 28 September 1909 [Lough Dun, Wicklow. IrelandHets]
- 10A: 2 October 1935 [Berkhampstead Common, Hertfordshire. LondonHets] 1 October 1954 [Tregaron Bog, Cardiganshire. Male and female. EMM92:54-64]
- 10B: 6 October 1945 [Richmond Park, Surrey. LondonHets]
- 10C: 11 October 1948 [Esher Common, Surrey. LondonHets] 15 October 1966 [Oxshott, Surrey. PTSLENHS1967:26-28] 14 October 1860 [Weybridge, Surrey. LondonHets]
- 10D: 16 October 1950 [Oxshott Heath, Surrey. LondonHets] 20 October 1894 [Shirley Common, Surrey. LondonHets]
- 11A: 5 November 1956 [Farningham Wood, Kent. LondonHets] 4 November 1962 [Farningham Wood, Kent. LondonHets] 4 November 1920 [Woking, Surrey. LondonHets]
- 11F: 30 November 1951 [Oxshott Heath, Surrey. LondonHets]

*Nabis ferus* (Linnaeus) (Nabidae)

- 01C: 13 January 1952 [Chalfont St Giles, Buckinghamshire. LondonHets]
- 01D: 19 January 1964 [Shoreham, Kent. LondonHets]
- 01E: 25 January 1948 [Dyer's Hall Swamp, Bedfordshire. EMM86:6-8]
- 02A: 3 February 1968 [Caterham, Surrey. LondonHets]
- 02F: 27 February 1960 [Shoreham, Kent. LondonHets] 27 February 1948 [Sunninghill, Berkshire. Males and females. EMM85:193-206]

- 03B: 10 March 1963 [Farningham Wood, Kent. LondonHets]  
 03E: 23 March 1931 [Esher Common, Surrey. PSLENHS1931-32:49]  
 03F: 30 March 1950 [Blakeway Coppice, Shropshire. EMM91:237] 31 March 1957 [Burnham Beeches, Buckinghamshire. LondonHets] 30 March 1953 [Datchet, Buckinghamshire. LondonHets] 26 March 1944 [Marsden, Gloucestershire. GloucsHets]  
 04A: 5 April 1891 [Lewisham, Kent. LondonHets]  
 04B: 10 April 1948 [Hayling Island, Hampshire. Females. EMM85:193-206]  
 04C: 11 April 1943 [Rendcomb, Gloucestershire. GloucsHets]  
 04E: 21 April 1953 [Harpendon, Hertfordshire. Male. EMM89:294]  
 05C: 15 May 1962 [Coulston, Surrey. LondonHets] 11 May 1950 [Trawscoed, Cardiganshire. Female. EMM92:54-64]  
 05E: 25 May 1955 [Aberystwyth, Cardiganshire. Male. EMM92:54-64] 23 May 1950 [Trawscoed, Cardiganshire. Male. EMM92:54-64]  
 05F: 26 May 1960 [Radlett, Hertfordshire. LondonHets] 30 May 1914 [Royston, Hertfordshire. LondonHets] 31 May 2014 [South of Weavers Down, VC13. Hem6:231]  
 06B: 8 June 1962 [Epping Forest, Essex. Adult. LondonHets]  
 06F: 29 June 1911 [Mickleham, Surrey. Female. LondonHets] 27 June 1955 [Ruislip NR, Middlesex. Female. LondonHets]  
 07A: 5 July 1957 [Banstead Downs, Surrey. Female. LondonHets] 5 July 1944 [Starcross, South Devon. Ent88:89-91] 5 July 1957 [Virginia Water, Surrey. LondonHets]  
 07C: 14 July 1925 [Chalfont St Peter, Buckinghamshire. LondonHets] 11 July 2001 [Pendower Beach, Cornwall. CornwallHets] 11 July 2003 [West Pentire Headland, near Newquay, West Cornwall. BJENH18:165-170]  
 07D: 18 July 1983 [Devil's Punchbowl, VC28. Hem4:19] 17 July 1955 [Hedgerley, Buckinghamshire. LondonHets]  
 07E: 21 July 1983 [Chalk Lane, The King's Forest, VC26. Hem4:19] 23 July 1944 [Eycot, Gloucestershire. GloucsHets]  
 07F: 28 July 1982 [Warsash Common, VC11. Hem3:105]  
 08B: 9 August 1980 [Chalk Lane, The King's Forest, VC26. Hem4:19] 9 August 1984 [Totteridge, Hertfordshire. LondonHets]  
 08C: 15 August 1959 [Blackheath, Kent. LondonHets] 13 August 1905 [Boxhill, Surrey. Female. LondonHets] 12 August 1947 [Cardington, near Bedford. PRESL(A)24:128-130] 13 August 1964 [Coulston, Surrey. LondonHets] 12 August 1998 [Kelly Bray, Cornwall. CornwallHets] 12 August 2004 [Potterhanworth Booths, VC53. Hem3:86] 13 August 1921 [Shoreham, Kent. LondonHets]  
 08D: 18 August 1976 [Darenth Wood, Kent. LondonHets] 17 August 1995 [Highgrove House, Gloucestershire. GloucsHets] 20 August 1955 [In the grounds of Rothamsted Experimental Station, Harpenden, Hertfordshire. LondonHets]  
 08E: 22 August 1964 [Brook, Kent. PTSLENHS1964:37-38] 25 August 2005 [South Penquite Farm, Cornwall. CornwallHets]  
 08F: 30 August 1959 [Halling, Kent. PTSLENHS1959:91] 31 August 1962 [Ruislip NR, Middlesex. Male. LondonHets] 27 August 1961 [Swanscombe, Kent. LondonHets] 29 August 1964 [Warlingham, Surrey. LondonHets] 29 August 1961 [Whetstone, Hertfordshire. Male. LondonHets]  
 09A: 4 September 1964 [Darenth, Kent. LondonHets] 2 September 1970 [Kynance Cove, Cornwall. CornwallHets] 2 September 1950 [Oxshott, Surrey. PTSLENHS1950-51:78-79]  
 09B: 6-7 September 2014 [Beale Park, Pangbourne, Berkshire. BJENH28:62] 7 September 1976 [Darenth Wood, Kent. LondonHets] 9 September 1985 [Daymer Bay, Cornwall. CornwallHets] 7 September 1968 [Farningham Wood, Kent. LondonHets] 8 September 1934 [Gravesend, Kent. Male and female. LondonHets]  
 09C: 14 September 1952 [Amersham, Buckinghamshire. LondonHets] 11 September 1949 [Blakeway Coppice, Shropshire. EMM91:237] 13 September 1944 [Fancott, near Toddington, Bedfordshire. EMM81:183-185] 14 September 1944 [Heath and Reach, Bedfordshire. EMM81:183-185] 14 September 1992 [Loe Bar, Cornwall. CornwallHets] 15 September 1963

- [Oxshott Heath, Surrey. Adult. LondonHets] 13 September 1944 [Totternhoe, Bedfordshire. EMM81:183-185] 11 September 1933 [Woking, Surrey. LondonHets]
- 09D: 17 September 1928 [Boxhill, Surrey. Male. LondonHets] 19 September 1964 [Coulsdon, Surrey. LondonHets] 20 September 1992 [Coverack, Cornwall. CornwallHets] 16 September 1963 [Epping Forest, Essex. LondonHets] 16 September 1950 [Oxshott Heath, Surrey. LondonHets] 18 September 1957 [Stanner Rocks, Radnorshire. EMM94:183]
- 09E: 23 September 1956 [Benfleet, Essex. LondonHets] 24 September 1959 [Boxhill, Surrey. LondonHets] 23 September 1956 [Chobham Common, Surrey. LondonHets] 22 September 1957 [Chobham Common, Surrey. LondonHets] 25 September 1906 [Coulsdon, Surrey. Male. LondonHets] 21 September 1963 [Coulsdon, Surrey. LondonHets] 24 September 1992 [Kennack Sands, Cornwall. CornwallHets] 23 September 1990 [Pithouse Pond, Gloucestershire. GloucsHets] 23 September 1992 [Porthallow, Cornwall. CornwallHets] 23 September 1993 [Porthallow, West Cornwall. BJENH13:106-107] 23 September 1992 [Porthoustock, Cornwall. CornwallHets] 25 September 1992 [Praa Sands, Cornwall. CornwallHets] 22 September 1963 [Weybridge, Surrey. LondonHets]
- 09F: 29 September 1987 [Broadway, Worcestershire. Female. EMM127:10] 29 September 2004 [Clitters Wood, Cornwall. CornwallHets] 26 September 1934 [Imperial College Biological Field Station, Slough. TSBE2:47-67] 26 September 1983 [Mitcham Common, Surrey. LondonHets] 26 September 1911 [Wisley, Surrey. LondonHets]
- 10A: 2 October 1955 [Boxhill, Surrey. LondonHets] 1 October 1949 [Hampstead Heath, Middlesex. LondonHets]
- 10C: 15 October 1955 [Egham, Surrey. LondonHets] 15 October 1966 [Oxshott, Surrey. PTSLENHS1967:26-28] 13 October 1985 [Perrott's Brook Marsh, Gloucestershire. GloucsHets]
- 10D: 20 October 1963 [Bookham Common, Surrey. LondonHets] 16 October 1959 [Erith Marshes, Kent. LondonHets]
- 10E: 24 October 1959 [Blackheath, Kent. LondonHets] 22 October 1959 [Hounslow Heath, Middlesex. Adult. LondonHets]
- 10F: 31 October 1947 [Sunninghill, Berkshire. Males and females. EMM85:193-206]
- 11D: 18 November 1975 [Joyden's Wood, Kent. LondonHets] 20 November 1943 [Northwood, Middlesex. LondonHets]
- 11E: 21 November 1959 [Blackheath, Kent. LondonHets]

*Nabis flavomarginatus* Scholtz (Nabidae)

- 05C: 14 May 1943 [Daglingworth, Gloucestershire. GloucsHets]
- 05D: 17 May 1914 [Canvey Island, Essex. Nymph. LondonHets]
- 05E: 21 May 1956 [Ruislip NR, Middlesex. Nymphs. LondonHets]
- 05F: 26 May 1914 [Royston, Hertfordshire. Nymph. LondonHets]
- 06C: 14 June 1953 [Bookham Common, Surrey. Nymph. LondonHets]
- 06F: 27 June 1914 [Canvey Island, Essex. Nymph. LondonHets] 30 June 1933 [Glen Einich, Aviemore, Inverness-shire. JSBE1:131-141] 30 June 1949 [Hampstead Heath, Middlesex. LondonHets] 27 June 1955 [Ruislip NR, Middlesex. Nymphs. LondonHets]
- 07A: 5 July 1957 [Banstead Downs, Surrey. Males and females. LondonHets] 5 July 1953 [Banstead, Surrey. LondonHets] 2 July 1900 [Grove Park, Kent. LondonHets]
- 07B: 10 July 1976 [Dagnam Park, Essex. LondonHets] 7 July 1950 [Trawscoed, Cardiganshire. Females. EMM92:54-64] 7 July 1957 [Wyre Forest, Worcestershire. EMM94:93]
- 07C: 14 July 2003 [Bustard Vedette, VC8. Hem5:189] 12 July 1955 [Harpenden, Hertfordshire. Male. LondonHets] 12 July 1925 [Prees Heath, near Whitchurch, Shropshire. Adults including macropters. EMM61:207] 15 July 1989 [Rodborough Common, Gloucestershire. GloucsHets] 15 July 1990 [Rodborough Common, Gloucestershire. GloucsHets] 12 July 1964 [Swanscombe, Kent. LondonHets]
- 07D: 19 July 1964 [Bookham Common, Surrey. LondonHets] 18 July 1983 [Devil's Punchbowl, VC28. Hem4:19] 19 July 1983 [Devil's Punchbowl, VC28. Hem4:19] 19 July 1964 [Hatfield, Hertfordshire. LondonHets] 19 July 1925 [Prees Heath, near Whitchurch, Shropshire.

- EMM61:207] 18 July 1959 [Slough, Buckinghamshire. LondonHets] 20 July 1983 [Two Mile Bottom, VC28. Hem4:19]
- 07E: 21 July 1983 [Chalk Lane, The King's Forest, VC26. Hem4:19] 22 July 1933 [Chobham, Surrey. Male and females. LondonHets] 23 July 1976 [Dagnam Park, Essex. LondonHets] 24 July 1954 [Latimer, Buckinghamshire. LondonHets] 21 July 1955 [Llangurig, Montgomeryshire. Male and female. EMM92:54-64] 22 July 1957 [Loch Ard Forest, Stirlingshire. EMM94:93] 21 July 1983 [Santon Warren, VC28. Hem4:19] 25 July 1948 [Tingrith, Bedfordshire. EMM86:6-8] 22 July 1955 [Tregaron Bog, Cardiganshire. Males. EMM92:54-64] 25 July 1956 [Virginia Water, Surrey. LondonHets]
- 07F: 29 July 1950 [Bookham. PTSLENHS1950-51:75-76] 30 July 1951 [Bookham Common, Surrey. Male and female. LondonHets] 31 July 1945 [Leagrave Marsh, Bedfordshire. EMM86:6-8] 29 July 1955 [Ruislip NR, Middlesex. Female. LondonHets] 30 July 1943 [Shaw Common, near Newent, Gloucestershire. GloucsHets] 28 July 1908 [Twitchen, Mortehoe, Devon. Male macropter. EMM93:49-51]
- 08A: 5 August 1950 [Bookham Common, Surrey. Female. LondonHets] 2 August 1907 [Gravesend, Kent. Male macropter. LondonHets]
- 08B: 8 August 1955 [Cheam, Surrey. LondonHets] 8 August 1967 [Loch Lomond NNR, Dumbartonshire. EMM114:21-24] 9 August 1910 [West End Common, Surrey. LondonHets] 6 August 1941 [Wimbledon Common, Surrey. LondonHets]
- 08C: 13 August 1955 [Aberystwyth, Cardiganshire. EMM92:54-64] 15 August 1938 [Benfleet, Essex. LondonHets] 13 August 1954 [Cheam, Surrey. LondonHets] 14 August 1914 [Ellerby Moor, North-east Yorkshire. Female, intermediate between macropter and brachypter. Butler1923] 15 August 1993 [Poor's Allotment, Gloucestershire. GloucsHets]
- 08D: 18 August 1991 [Betty Daws Wood, Dymock, Gloucestershire. GloucsHets] 20 August 1894 [Bookham Common, Surrey. LondonHets]
- 08E: 21 August 1943 [Finchley, Middlesex. LondonHets] 21 August 2006 [Launy Hole, Cornwall. CornwallHets] 23 August 2006 [Rinsey Cliffs, Cornwall. CornwallHets]
- 08F: 26 August 1954 [Harpenden, Hertfordshire. Male. LondonHets] 26 August 1944 [Lampton, Middlesex. LondonHets] 31 August 1914 [St Osyth, Essex. Female. LondonHets]
- 09A: 1 September 1954 [Harpenden, Hertfordshire. Female. LondonHets] 2 September 1950 [Oxshott, Surrey. PTSLENHS1950-51:78-79] 1 September 1955 [Ruislip NR, Middlesex. Males. LondonHets]
- 09B: 9 September 1985 [Dozmary Pool, Cornwall. CornwallHets] 8 September 1934 [Gravesend, Kent. Male. LondonHets] 7 September 1950 [Penn Street, Buckinghamshire. LondonHets] 7 September 1954 [Ranmore Common, Surrey. LondonHets] 8 September 1991 [Whelford Pools, Gloucestershire. GloucsHets]
- 09C: 11 September 1897 [Kidbrooke, Kent. LondonHets]
- 09D: 18 September 1920 [Bookham Common, Surrey. LondonHets] 19 September 1900 [Shooters Hill, Kent. Macropter. LondonHets] 17 September 1995 [Winson Meadows, Gloucestershire. GloucsHets]
- 09E: 23 September 1956 [Benfleet, Essex. LondonHets] 25 September 1893 [Lewisham, Kent. Male. LondonHets]
- 09F: 28 September 1963 [Epping Forest, Essex. LondonHets]
- 10A: 2 October 1954 [Tregaron Bog, Cardiganshire. Female. EMM92:54-64]

*Nabis limbatus* Dahlbom (Nabidae)

- 03D: 20 March 1951 [Oxshott Heath, Surrey. LondonHets]
- 05C: 13 May 1956 [Bookham Common, Surrey. Nymphs. LondonHets]
- 06C: 14 June 1953 [Bookham Common, Surrey. Nymphs. LondonHets] 13/14 June 1981 [Thornden Wood, Blean Woods, Kent. PTBENHS15:31-32]
- 06E: 21 June 1955 [Bookham Common, Surrey. Nymphs. LondonHets] 25 June 1955 [Wimbledon Common, Surrey. Nymphs. LondonHets]
- 06F: 30 June 1952 [Arbrook Common, Surrey. Male and female. LondonHets] 27 June 1959 [Chobham Common, Surrey. Female macropter. EMM96:13] 27 June 1949 [Hampstead Heath, Middlesex. LondonHets] 27 June 1955 [Ruislip NR, Middlesex. Nymphs. LondonHets]

- 07A: 5 July 1957 [Banstead Downs, Surrey. Nymph. LondonHets] 3 July 1956 [Bricket Wood Common, Hertfordshire. Nymph. LondonHets] 5 July 1957 [Gt. Burgh, Banstead, Surrey. Nymph. LondonHets] 4 July 1970 [Lullingstone Park, Kent. LondonHets] 4 July 1933 [Woking, Surrey. LondonHets]
- 07B: 10 July 1955 [Bookham Common, Surrey. Nymphs. LondonHets] 8 July 1956 [Bookham Common, Surrey. Nymphs. LondonHets] 8 July 1955 [Cheam, Surrey. Nymph. LondonHets] 6 July 1955 [Darenth Wood, Kent. Nymph. LondonHets] 7 July 1957 [Wyre Forest, Worcestershire. EMM94:93]
- 07C: 14 July 1955 [Bookham Common, Surrey. Nymphs. LondonHets] 14 July 2003 [Great Cheverell Hill, VC8. Hem5:189] 14 July 1953 [Grounds of the Pest Infestation Laboratory, Slough. LondonHets] 13 July 2006 [Kenidjack Valley, Cornwall. CornwallHets] 12 July 1952 [Oxshott Heath/Esher Common. PTSLENHS1952-53:83-84] 15 July 1959 [Slough, Buckinghamshire. Female macropter. EMM96:13] 12 July 1964 [Swanscombe, Kent. LondonHets]
- 07D: 19 July 1953 [Bookham Common, Surrey. Nymphs. LondonHets] 20 July 1955 [Derwenlas, Montgomeryshire. Nymph. EMM92:54-64] 18 July 1983 [Devil's Punchbowl, VC28. Hem4:19] 16 July 1944 [Elstree, Hertfordshire. LondonHets] 17 July 1955 [Hafod, Cardiganshire. EMM92:54-64] 19 July 1964 [Hatfield, Hertfordshire. LondonHets] 16 July 1989 [Lancut NR, Gloucestershire. GloucsHets] 16 July 1996 [Rough Tor, Cornwall. CornwallHets] 20 July 1983 [Santon Warren, VC28. Hem4:19] 16 July 1992 [Sherborne Farm, Gloucestershire. GloucsHets] 18 July 1955 [Tregaron Bog, Cardiganshire. Males. EMM92:54-64] 20 July 1983 [Two Mile Bottom, VC28. Hem4:19]
- 07E: 23 July 1961 [Aldenharn, Hertfordshire. LondonHets] 23 July 1980 [Boxhill, Surrey. LondonHets] 21 July 1983 [Chalk Lane, The King's Forest, VC26. Hem4:19] 22 July 1933 [Chobham, Surrey. Male and female. LondonHets] 23 July 1944 [Cotswold Park, Gloucestershire. GloucsHets] 21 July 1955 [Devil's Bridge, Cardiganshire. Male. EMM92:54-64] 22 July 1952 [Gravesend, Kent. LondonHets] 21 July 1955 [Llangurig, Montgomeryshire. Nymph. EMM92:54-64] 22 July 1957 [Loch Ard Forest, Stirlingshire. EMM94:93] 21 July 1955 [Rhayader, Radnor. Males and nymphs. EMM92:54-64] 24 July 1956 [Ruislip NR, Middlesex. Males, females and nymphs. LondonHets] 23 July 1983 [Swifts Hill, Gloucestershire. GloucsHets] 22 July 1955 [Tregaron Bog, Cardiganshire. Males, females and nymphs. EMM92:54-64]
- 07F: 29/30 July 1978 [Denny Bog, New Forest. PTBENHS12:134-135] 27 July 1990 [Doddington Woods, VC53. Hem3:86] 30 July 1950 [Epping Forest, Essex. LondonHets] 30 July 1911 [Ranmore Common, Surrey. LondonHets] 29 July 1955 [Ruislip NR, Middlesex. Males, females and nymphs. LondonHets] 31 July 1956 [Wimbledon Common, Surrey. LondonHets]
- 08A: 5 August 1933 [Chobham, Surrey. Female. LondonHets] 4 August 1984 [Church Wood, Blean, Kent. PTBENHS18:30-31] 5 August 1976 [Darenth Wood, Kent. LondonHets] 4 August 1955 [Esher Common, Surrey. LondonHets] 5 August 1933 [Horsell Common, Surrey. Male. LondonHets] 4 August 1955 [Oxshott Heath, Surrey. Nymph. LondonHets] 1 August 1948 [Rickmansworth, Hertfordshire. LondonHets]
- 08B: 9 August 1980 [Chalk Lane, The King's Forest, VC26. Hem4:19] 10 August 1976 [Darenth Wood, Kent. LondonHets] 9 August 1945 [Flitwick Marsh and Fancott, Bedfordshire. EMM86:6-8] 8 August 1967 [Loch Lomond NNR, Dumbartonshire. EMM114:21-24] 6 August 1906 [Near Newbury, Berkshire. Male. Butler1923] 9 August 1984 [Totteridge, Hertfordshire. LondonHets] 8 August 1954 [Treborh, Caernarvonshire. Female. EMM92:54-64] 9 August 1906 [Woodhay, near Newbury, Berkshire. Male. TRESL55:323-408]
- 08C: 12 August 1980 [Chalk Lane, The King's Forest, VC26. Hem4:19] 13 August 1954 [Cheam, Surrey. Female. LondonHets] 15 August 1958 [Mill Hill, Middlesex. LondonHets] 13 August 2004 [Norway Inn, Cornwall. CornwallHets] 15 August 1993 [Poor's Allotment, Gloucestershire. Macropter. GloucsHets] 15 August 2011 [Rewell Wood, Arundel, VC13. Hem5:189] 15 August 2015 [South Norwood Country Park, West Kent. BJENH29:122-125] 15 August 1995 [South of Lostwithiel, Cornwall. CornwallHets] 11 August 1979 [Stifford, Essex. LondonHets] 14 August 1837 [Thorne Moor. Fully developed. EMM69:234-245]

- 08D: 18 August 1989 [Cardiff, Wales. Female. EG41:231-233] 17 August 1925 [Chalfont St Peter, Buckinghamshire. Nymphs. LondonHets] 19 August 1985 [Cinderford, Forest of Dean, Gloucestershire. GloucsHets] 17 August 1930 [Gravesend, Kent. Female. LondonHets] 20 August 1989 [Over Ponds, Gloucestershire. GloucsHets] 17 August 1952 [Stoke Common, Buckinghamshire. LondonHets] 20 August 1950 [West End Common, Surrey. Male. LondonHets] 18 August 1933 [Woking, Surrey. LondonHets]
- 08E: 21 August 2006 [Argal Dam, Cornwall. CornwallHets] 23 August 1955 [Banstead Downs, Surrey. Female. LondonHets] 21 August 2002 [Boscawell Cliff, Cornwall. CornwallHets] 22 August 1955 [Cheam, Surrey. Adult and nymph. LondonHets] 21 August 1954 [Esher Common, Surrey. LondonHets] 25 August 1954 [Harpenden, Hertfordshire. LondonHets] 21 August 1993 [Near Maidenhead, Berkshire. EMM130:225-226] 23 August 2005 [South Penquite Farm, Cornwall. CornwallHets] 23 August 1964 [Uxbridge, Middlesex. LondonHets]
- 08F: 26 August 1970 [Caerlaverock NNR, Solway Firth, Dumfriesshire. EMM109:60] 29 August 1994 [Dowdeswell Wood, Gloucestershire. GloucsHets] 27 August [Hipsey Spinney, Fancott, Bedfordshire. Adults in copula. EMM86:6-8] 27 August 1951 [Hoyle's Mouth, Penally, Pembrokeshire. EMM88:22] 28 August 1933 [Woking, Surrey. LondonHets]
- 09A: 4 September 1993 [Beachley Point, Gloucestershire. Macropter. GloucsHets] 3 September 1933 [Horsell Common, Surrey. Male. LondonHets] 1 September 1955 [Ruislip NR, Middlesex. Males, females and nymphs. LondonHets] 1 September 1963 [Ruislip, Middlesex. LondonHets]
- 09B: 10 September 1950 [Ash Vale, Surrey. LondonHets] 8 September 1951 [Ash Vale, Surrey. LondonHets] 10 September 1994 [Bledington, Gloucestershire. GloucsHets] 9 September 1985 [Dozmary Pool, Cornwall. CornwallHets] 7 September 1968 [Farningham Wood, Kent. LondonHets] 9 September 1944 [Mounton, Chepstow. EMM91:143]
- 09C: 15 September 1963 [Coombe Hill, Buckinghamshire. LondonHets] 13 September 2019 [Cowhouse Bank, North York Moors. Blood-red form. Hem6:266] 15 September 1962 [Downe, Kent. LondonHets] 15 September 1953 [Esher Common, Surrey. LondonHets] 14 September 1963 [Hatfield, Hertfordshire. LondonHets] 13 September 1905 [Near Theydon Bois, Essex. Ent38:281-282] 12 September 1941 [Over, Gloucestershire. GloucsHets] 11 September 1950 [West End Common, Surrey. Male. LondonHets] 15 September 1990 [Westbury Brook NR, Plumhill, Gloucestershire. GloucsHets] 11 September 1933 [Woking, Surrey. LondonHets]
- 09D: 18 September 1999 [Anderby Creek, VC54. Hem3:86] 18 September 1930 [Bookham Common, Surrey. Male. LondonHets] 19 September 1909 [Chipstead, Surrey. Female. LondonHets] 16 September 1963 [Epping Forest, Essex. LondonHets] 17 September 1995 [Lechlade Reserve, Gloucestershire. GloucsHets] 19 September 1956 [Ruislip NR, Middlesex. Female. LondonHets]
- 09E: 22 September 1951 [Boxhill, Surrey. LondonHets] 23 September 1951 [Farningham Woods, Kent. PTSLENHS1951-52:81] 24 September 1934 [Imperial College Biological Field Station, Slough. TSBE2:47-67] 23 September 1966 [Oxenbourne NR, VC11. Hem3:106] 23 September 1990 [Pithouse Pond, Gloucestershire. GloucsHets] 22 September 1963 [Weybridge, Surrey. LondonHets]
- 09F: 29 September 1963 [Chorley Wood Common, Hertfordshire. LondonHets]
- 10A: 2 October 1955 [Boxhill, Surrey. LondonHets] 2 October 1966 [Cuckoo Wood, Downe, Kent. LondonHets] 4 October 1936 [Horsell Common, Surrey. Female macropter. LondonHets] 1 October 1954 [Tregaron Bog, Cardiganshire. Males and females. EMM92:54-64] 5 October 1950 [West End Common, Surrey. Female. LondonHets]
- 10B: 10 October 1911 [Boxhill, Surrey. Male and female. LondonHets] 9 October 1954 [Oxshott Heath, Surrey. LondonHets] 9 October 1994 [Woodchester Park, Gloucestershire. GloucsHets]
- 10C: 14 October 1962 [Berkhamstead, Hertfordshire. LondonHets]
- 10D: 20 October 1963 [Bookham Common, Surrey. LondonHets]
- 10E: 21 October 1962 [Coombe Hill, Buckinghamshire. LondonHets]

*Nabis lineatus* Dahlbom (Nabidae)

- 07C: 11 July 1989 [Cam Draught, Crackington, Cornwall. BJENH18:54] 12 July 1952 [Oxshott Heath/Esher Common. PTSLENHS1952-53:83-84]  
 07D: 17 July 1926 [Arklow, Wicklow. Nymphs. IrelandHets] 18 July 1982 [East bank of Hamble estuary, VC11. Hem3:106] 19 July 2010 [Near Keyhaven, South Hampshire coast. Hem6:266]  
 08A: 1 August 1904 [Southwold, Suffolk. Female macropter. Butler1923]  
 08C: 12 August 1927 [Kilcoole, Wicklow. Adults and nymphs. IrelandHets]  
 08D: 17 August 1985 [Newborough Warren, Anglesey. HSGN6:3]  
 08E: 25 August 1984 [Blackwater, Essex. HSGN4:4] 23 August 1955 [Borth Bog, Cardiganshire. EMM92:54-64] 24 August 1898 [Chippenham Fen. EMM34:220-221] 25 August 1898 [Wicken Fen. EMM34:220-221]  
 08F: 30 August 1969 [Brough, SE Yorkshire. Female. EMM108:231] 27 August 1962 [Inch, County Kerry. EMM98:207] 31 August 1970 [Kilnsea, SE Yorkshire. Male. EMM108:231] 30 August 1927 [Murragh of Wicklow. IrelandHets]  
 09B: 6 September 2009 [Blakeney Eye, East Norfolk. HN15:13] 8 September 1929 [River Suir, Waterford. IrelandHets] 10 September 2009 [Titchwell, West Norfolk. HN15:13] 6 September 1929 [Waterford. IrelandHets]  
 09C: 15 September 2019 [Beacon Lagoons, near Easington, South-east Yorkshire. Hem6:266]  
 09D: 17 September 1928 [Arklow, Wicklow. Adults. IrelandHets]  
 09F: 27 September 1928 [Kilcoole, Wicklow. Adult. IrelandHets]

*Nabis pseudoferus* Remane (Nabidae)

- 04D: 20 April 1963 [Hothfield, Kent. PTSLENHS1963Part1:64]  
 07A: 2 July 1957 [Ham Street Wood, East Kent. Female. EMM94:137]  
 07E: 21 July 1970 [Kynance Cove, Cornwall. CornwallHets] 21 July 1957 [Near Sandwich, East Kent. EMM94:170]  
 08A: 2 August 2013 [Lincoln, VC53. Hem3:86]  
 08E: 21 August 2006 [Trimingham, VC27. Hem4:41]  
 08F: 29 August 1957 [Thetford Chase, Norfolk. Female. EMM94:137]  
 09A: 5 September 1957 [Ham Street Wood, East Kent. Males and a female. EMM94:137]  
 09B: 9 September 1985 [Daymer Bay, Cornwall. CornwallHets]  
 09C: 12 September 1954 [Ham Street Wood, East Kent. Female. EMM92:282-283]  
 09D: 18 September 1958 [Ham Street Woods. EMM95:96] 19 September 1980 [Main Dale, Cornwall. CornwallHets]

*Nabis rugosus* (Linnaeus) (Nabidae)

- 01A: 2 January 1934 [Ashridge, Hertfordshire. LondonHets]  
 01E: 21 January 1896 [Dartford, Kent. LondonHets]  
 01F: 26 January 1896 [Mickleham, Surrey. LondonHets]  
 03C: 12 March 1895 [Boxhill, Surrey. Female. LondonHets] 13 March 1904 [Radmore Common, Surrey. LondonHets]  
 04A: 1 April 1893 [Woking, Surrey. LondonHets]  
 04C: 15 April 1946 [Boxmoor, Hertfordshire. EMM85:249-253] 14 April 1961 [Coulson, Surrey. LondonHets] 12 April 1911 [Epping Forest, Essex. LondonHets]  
 04D: 16 April 1912 [Chipstead, Surrey. LondonHets] 17 April 1945 [Fiddler's Elbow, near Monmouth. EMM91:143] 17 April 1925 [Oxshott Heath, Surrey. LondonHets]  
 04E: 25 April 1937 [Chobham Common, Surrey. Male. LondonHets] 22 April 1958 [Farningham Wood, Kent. LondonHets] 21 April 1959 [Farningham Wood, Kent. LondonHets] 23 April 1953 [Grounds of the Pest Infestation Laboratory, Slough. LondonHets] 21 April 1953 [Harpendon, Hertfordshire. Female. EMM89:294]  
 05A: 3 May 1963 [Datchet, Buckinghamshire. LondonHets] 3 May 2001 [Gaff Wood, Cornwall. CornwallHets] 5 May 1933 [Imperial College Biological Field Station, Slough. TSBE2:47-67]  
 05B: 8 May 1945 [Hipsey Spinney, Fancott, Bedfordshire. EMM86:6-8] 8 May 1944 [Lampton, Middlesex. LondonHets]

- 05C: 11 May 1912 [Abinger Hammer, Surrey. Adult and nymph. LondonHets] 12 May 1961 [Coulsdon, Surrey. LondonHets] 13 May 1961 [Coulsdon, Surrey. LondonHets] 14 May 1949 [Hampstead Heath, Middlesex. LondonHets] 14 May 1960 [Shoreham, Kent. LondonHets] 11 May 1950 [Trawscoed, Cardiganshire. Females. EMM92:54-64] 11 May 1944 [Whipsnade, Bedfordshire. EMM81:183-185]
- 05D: 19 May 1947 [British Isles. Female. EMM85:193-206] 17 May 1943 [Daglingworth, Gloucestershire. GloucsHets] 16 May 1952 [Little Chalfont, Buckinghamshire. LondonHets] 16 May 1985 [Newark Park, Ozleworth, Gloucestershire. GloucsHets] 20 May 1922 [Westerham, Kent. LondonHets]
- 05E: 21 May 1955 [Aberystwyth, Cardiganshire. Female. EMM92:54-64] 25 May 1955 [Aberystwyth, Cardiganshire. Males. EMM92:54-64] 24 May 1959 [Chobham Common, Surrey. LondonHets] 23 May 1942 [Cliffordine, Gloucestershire. GloucsHets] 21 May 2015 [Constable Doles, VC27. Hem4:41] 25 May 1963 [Farningham Wood, Kent. LondonHets] 24 May 1955 [Grounds of the Pest Infestation Laboratory, Slough. LondonHets] 23 May 1989 [Pennance Farm, Cornwall. CornwallHets] 21 May 1966 [Sheeples, Horsley, Surrey. PTSLENHS1967:83-85] 23 May 1950 [Trawscoed, Cardiganshire. Males and females, including pair in copula. EMM92:54-64] 25 May 1947 [Weybridge, Surrey. LondonHets]
- 05F: 29 May 1955 [Aberystwyth, Cardiganshire. Males and females. EMM92:54-64] 29 May 1969 [Caterham, Surrey. LondonHets] 30 May 1954 [Chailey, Sussex. PTSLENHS1954-55:81-83] 28 May 1893 [Darenth, Kent. LondonHets] 30 May 2000 [Draynes Wood, Cornwall. CornwallHets] 28 May 1956 [Farningham Wood, Kent. Male and female. LondonHets] 28 May 1944 [Fiddler's Elbow, near Monmouth. EMM91:143] 28 May 2012 [Rewell Wood, Arundel, VC13. Hem5:189] 30 May 1914 [Royston, Hertfordshire. Nymph. LondonHets] 29 May 1993 [Sapperton Valley, Gloucestershire. GloucsHets]
- 06A: 2 June 1961 [Coulsdon, Surrey. LondonHets] 1 June 1968 [Effingham, Surrey. LondonHets] 3 June 1965 [Orpington, Kent. LondonHets] 1 June 2000 [Tregantle, Cornwall. CornwallHets]
- 06B: 10 June 1951 [Amersham, Buckinghamshire. LondonHets] 8 June 2000 [Bynorth Cliff, Cornwall. CornwallHets] 7 June 1917 [Darenth, Kent. Female. LondonHets] 8 June 1962 [Epping Forest, Essex. Adult. LondonHets] 6-7 June 1964 [Hatfield, Hertfordshire. LondonHets] 7 June 1952 [Hodgemoor Wood, Buckinghamshire. LondonHets] 8 June 1963 [Swanscombe, Kent. LondonHets]
- 06C: 14 June 1994 [Blakes Wood, Gloucestershire. GloucsHets] 13 June 1983 [Brandon Park, VC26. Hem4:19] 15 June 1983 [Lakenheath Warren, VC26. Hem4:19] 11 June 1893 [Oxted, Surrey. LondonHets]
- 06D: 17 June 1983 [Chalk Lane, The King's Forest, VC26. Hem4:19] 17 June 1947 [Lampton, Middlesex. LondonHets] 18 June 1905 [Radmore Common, Surrey. LondonHets] 19 June 1983 [Santon Warren, VC28. Hem4:19] 17 June 1951 [Westerham, Kent. PTSLENHS1951-52:72-73]
- 06E: 25 June 1964 [Abbey Wood, Kent. LondonHets] 21 June 1955 [Bookham Common, Surrey. LondonHets] 21 June 1951 [Culbin, Moray Firth. EMM87:255] 22 June 1963 [Godstone, Surrey. LondonHets] 25 June 2015 [Great Pen Wood, VC12. Hem3:54] 21 June 1952 [Harefield, Middlesex. LondonHets] 25 June 2015 [Near Burghclere, VC12. Hem3:54] 25 June 1977 [Northward Hill NNR, Kent. PTBENHS11:67-68] 25 June 1955 [Wimbledon Common, Surrey. Nymphs. LondonHets]
- 06F: 30 June 1963 [Weybridge, Surrey. LondonHets] 26 June 1959 [Wimbledon Common, Surrey. LondonHets]
- 07A: 3 July 1962 [Abbey Wood, Kent. LondonHets] 5 July 1957 [Banstead Downs, Surrey. Nymphs. LondonHets] 5 July 1953 [Banstead, Surrey. Adult and nymph. LondonHets] 3 July 1956 [Bricket Wood Common, Hertfordshire. Nymphs. LondonHets] 4 July 1954 [Coulsdon, Surrey. EMM90:xxxix] 4 July 1953 [Little Chalfont, Buckinghamshire. LondonHets] 5 July 1944 [Starcross, South Devon. Ent88:89-91]
- 07B: 6 July 1958 [Folkestone, Kent. PTSLENHS1958:73-74] 7 July 1957 [Wyre Forest, Shropshire. EMM94:93]
- 07C: 14 July 1925 [Chalfont St Peter, Buckinghamshire. Nymphs. LondonHets] 13 July 1963 [Milford, Surrey. LondonHets] 15 July 1955 [Ynyslas, Cardiganshire. EMM92:54-64]

- 07D: 16 July 1962 [Abbey Wood, Kent. LondonHets] 17 July 1955 [Aberystwyth, Cardiganshire. Nymphs. EMM92:54-64] 20 July 1955 [Derwenlas, Montgomeryshire. Nymphs. EMM92:54-64] 18 July 1998 [Sancreed Beacon, Cornwall. CornwallHets]
- 07E: 21 July 1955 [Rhayader, Radnor. Nymphs. EMM92:54-64]
- 07F: 31 July 1977 [Ellenden Wood, near Whitstable, Kent. PTBENHS11:130] 31 July 1943 [Finchley, Middlesex. LondonHets] 31 July 1943 [Hampstead Heath, Middlesex. LondonHets]
- 08A: 3 August 1947 [Cockhayne Hatley Wood, Bedfordshire. Nymph. EMM86:6-8] 5 August 1976 [Darenth Wood, Kent. LondonHets] 4 August 1955 [Esher Common, Surrey. Nymphs. LondonHets] 4 August 1955 [Oxshott Heath, Surrey. Nymph. LondonHets]
- 08B: 9 August 1980 [Chalk Lane, The King's Forest, VC26. Hem4:19] 10 August 1976 [Darenth Wood, Kent. LondonHets] 10 August 1941 [Wormley Wood, Hertfordshire. LondonHets]
- 08C: 13 August 1954 [Cheam, Surrey. LondonHets] 15 August 1992 [Purton Timber Ponds, Gloucestershire. GloucsHets]
- 08D: 19 August 1995 [Coaley Peak, Gloucestershire. GloucsHets] 19 August 1995 [Field Farm, Nympsfield, Gloucestershire. GloucsHets] 17 August 1995 [Highgrove House, Gloucestershire. GloucsHets] 17 August 1980 [Hockham Heath, VC28. Hem4:19] 16 August 1952 [Latimer, Buckinghamshire. LondonHets] 18 August 1933 [Woking, Surrey. LondonHets]
- 08E: 23 August 1955 [Banstead Downs, Surrey. Nymph. LondonHets] 22 August 1964 [Brook, Kent. PTSLENHS1964:37-38] 21 August 1916 [Northwood, Middlesex. Adults and nymphs. LondonHets] 21 August 1954 [Oxshott Heath, Surrey. Adult. LondonHets] 25 August 1960 [Stanion, Northamptonshire. EMM97:32-33] 23 August 1964 [Uxbridge, Middlesex. LondonHets] 21 August 1933 [Woking, Surrey. LondonHets] 25 August 1933 [Woking, Surrey. LondonHets]
- 08F: 29 August 1937 [Boxhill, Surrey. Male and female. LondonHets] 27 August 1950 [Boxhill, Surrey. PTSLENHS1950-51:77-78] 29 August 1994 [Dowdeswell Wood, Gloucestershire. GloucsHets] 30 August 1959 [Halling, Kent. PTSLENHS1959:91] 29 August 1990 [Haresfield Beacon, Gloucestershire. GloucsHets] 30 August 1952 [Hodgemoor Wood, Buckinghamshire. LondonHets] 28 August 1944 [Near Shire Oak, Heath and Reach, Bedfordshire. EMM81:183-185] 28 August 1933 [Woking, Surrey. LondonHets]
- 09A: 5 September 1947 [British Isles. Males and females in copula. EMM85:193-206] 2 September 1950 [Oxshott, Surrey. PTSLENHS1950-51:78-79] 3 September 1949 [Rickmansworth, Hertfordshire. LondonHets] 4 September 1993 [Ruddle Marsh, Gloucestershire. GloucsHets]
- 09B: 8 September 1992 [Churchdown Hill, Gloucestershire. GloucsHets] 6 September 1953 [Epsom Common, Surrey. Nymph. LondonHets] 9 September 1945 [Purley, Surrey. LondonHets] 10 September 1985 [Widemouth Bay, Cornwall. CornwallHets]
- 09C: 11 September 1938 [Chobham Common, Surrey. Male. LondonHets] 15 September 1953 [Fawkham, Kent. LondonHets] 15 September 1990 [Moseley Green, Gloucestershire. GloucsHets] 14 September 1991 [Nagshead, Gloucestershire. GloucsHets] 11 September 1985 [Stowe Wood, Cornwall. CornwallHets] 11 September 1933 [Woking, Surrey. LondonHets]
- 09D: 16 September 1905 [Chislehurst. PSLENHS1905-06:52-53] 18 September 1908 [Dartford, Kent. Female. LondonHets] 19 September 1954 [Grounds of the Rothamsted Experimental Station, Harpenden, Hertfordshire. LondonHets] 17 September 1995 [Lechlade Reserve, Gloucestershire. GloucsHets] 18 September 1993 [Midger area, Gloucestershire. GloucsHets] 17 September 1995 [Winson Meadows, Gloucestershire. GloucsHets]
- 09E: 21 September 1968 [Caterham, Surrey. LondonHets] 25 September 1906 [Coulsdon, Surrey. Male. LondonHets] 21 September 1932 [Epping Forest, Essex. LondonHets] 23 September 1951 [Farningham Woods, Kent. PTSLENHS1951-52:81] 24 September 1992 [Kennack Sands, Cornwall. CornwallHets] 23 September 1966 [Oxenbourne NR, VC11. Hem3:106] 25 September 1992 [Praa Sands, Cornwall. CornwallHets] 22 September 1963 [Weybridge, Surrey. LondonHets]
- 09F: 28 September 1946 [Ashtead, Surrey. PTSLENHS1946-47:77] 27 September 1958 [Bostall Woods, Kent. Adult. LondonHets] 26 September 1939 [Boxhill, Surrey. Male. LondonHets] 27 September 1908 [Chipstead, Surrey. Female. LondonHets] 29 September 1963 [Chorley Wood Common, Hertfordshire. LondonHets] 29 September 2004 [Clitters Wood, Cornwall.

- CornwallHets] 30 September 1922 [Otford, Kent. LondonHets] 26 September 1911 [Wisley, Surrey. LondonHets]  
 10A: 2 October 1955 [Boxhill, Surrey. LondonHets] 3 October 1964 [Bromley, Kent. LondonHets] 2 October 1954 [Tregaron Bog, Cardiganshire. Males and females. EMM92:54-64] 1 October 1954 [Tregaron Bog, Cardiganshire. EMM92:54-64] 4 October 1970 [Westerham, Kent. LondonHets]  
 10B: 6 October 1962 [Addington, Surrey. PTSLENHS1962:104] 10 October 1965 [Banstead, Surrey. PTSLENHS1966:34] 10 October 1911 [Boxhill, Surrey. LondonHets] 8 October 1898 [Coldfall Woods, East Finchley, Middlesex. LondonHets] 7 October 1962 [Epping Forest, Essex. LondonHets] 9 October 1994 [Woodchester Park, Gloucestershire. GloucsHets]  
 10C: 14 October 1962 [Berkampstead, Hertfordshire. LondonHets] 13 October 1962 [Oxshott Heath, Surrey. LondonHets]  
 10D: 20 October 1963 [Bookham Common, Surrey. LondonHets] 19 October 1963 [Downe, Kent. LondonHets]  
 10E: 24 October 1946 [British Isles. Female. EMM85:193-206] 24 October 1902 [Purley, Surrey. LondonHets]  
 11A: 4 November 1905 [Richmond Park, Surrey. Male. LondonHets]

### Detailed records

#### *Himacerus apterus* (Fabricius) (Nabidae)

- Off an open-grown hawthorn [Boconnoc Park, Cornwall. 20 May 1990. BJENH18:54]  
 In grass [East Malling, Kent. 1 July 1945. Female macropter. EMM87:242-244]  
 On hop [Paddock Wood, Kent. 27 July 1942. Male and female macropters. EMM87:242-244]  
 In grass [East Malling, Kent. 8 August 1935. Female macropter. EMM87:242-244]  
 Beating a young pine in a plantation [Foulenden area of Norfolk. 7 August 1983. Male macropter. ERJV96:36]  
 On trees and shrubs [Foulenden area of Norfolk. 7 August 1983. ERJV96:36]  
 On hop [East Malling, Kent. 13 August 1942. Male and female macropters. EMM87:242-244]  
 In hedgerow [East Peckham, Kent. 15 August 1947. Female macropter. EMM87:242-244]  
 On hop [Paddock Wood, Kent. 13 August 1942. Male macropters. EMM87:242-244]  
 On nettle [Woodcock Wood, Bedfordshire. 11 August 1947. EMM86:6-8]  
 On nettle [Woodcock Wood, Bedfordshire. 20 August 1947. EMM86:6-8]  
 On hawthorn [Box Hill, Surrey. 27 August 1950. Female macropter. EMM87:242-244]  
 Predating on the larvae of the moth *Ernarmonia pomonella* spinning a cocoon in a corrugated paper band tied around an apple tree. Details given of feeding in culture [Wheathampstead, Hertfordshire. 27 August 1959. EMM95:185]  
 Beating juniper [Riddlesdown, Surrey. 4 September 1954. PTSLENHS1954-55:93-94]  
 Beating *Crataegus* [Ruislip NR, Middlesex. 1 September 1955. Adults. LondonHets]  
 On birch [Ash Vale, Surrey. 10 September 1950. Female macropter. EMM87:242-244]  
 On a wide variety of shrubs [Bledington Heath, Gloucestershire. 10 September 1994. GloucsHets]  
 Sweeping hazel [Darenth Wood, Kent. 7 September 1963. Male and females. LondonHets]  
 Beating *Crataegus* [Ruislip NR, Middlesex. 9 September 1958. Adults. LondonHets]  
 In grass [East Malling, Kent. 15 September 1942. Female macropter. EMM87:242-244]  
 In woods [Eynsford, Kent. 14 September 1952. PTSLENHS1952-53:86-87]  
 On broom [New Hythe, Kent. 13 September 1941. Female macropter. EMM87:242-244]  
 On hazel [Blandford, Dorset. 20 September 1934. Male and female macropters. EMM87:242-244]  
 Beating oak [Mitcham Common, Surrey. 20 September 1983. LondonHets]  
 On pines [West Wickham, Kent. 17 September 1898. LondonHets]  
 Sweeping [Bookham Common, Surrey. 26 September 1964. Female. LondonHets]  
 On hazel [Blandford, Dorset. 28 October 1934. Adults including female macropters. EMM71:113-114]  
 Sweeping [Battle/Dallington Forest. August. EMM18:113]  
 On *Crataegus* [Berkhampstead, Hertfordshire. September 1934. LondonHets]  
 On many species of trees [Bookham Common, Surrey. August/September. LondonHets]

On hawthorn [Cranfield, Bedfordshire. 24-31 August 1937. EMM73:235]  
 Off oak [Darenth Wood. PESL1883:xxvii]  
 Attacking an Ichneumonid, *Pimpla inquisitor*, in a curled aspen leaf [Darenth Wood, Kent. Male. PTSLENHS1943-44:22]  
 On oak and birch [Epping Forest, Essex. LondonHets]  
 On *Crataegus* and *Corylus* [Grounds of the Pest Infestation Laboratory, Slough. August 1951. EMM87:274]  
 On *Corylus avellana* [Grounds of the Pest Infestation Laboratory, Slough. September 1954. LondonHets]  
 On crab apple, oak and willow [Hartlebury Common LNR, Worcestershire. EMM133:17-26]  
 Beating *Alnus* [Hounslow Heath, Middlesex. 1953. Ent87:15-18]  
 Sweeping [In the neighbourhood of Barton Mills, Suffolk. Middle of August 1928. EMM64:218]  
 On sugar on tree trunks at night [Ipswich, Suffolk. SuffolkHets]  
 In culture, egg laid in chestnut wood [Kent. Gravid female. EMM65:34-38]  
 Out of oak and hornbeam [Loughton. EMM34:13-15]  
 Beating hazel [Shabbington Wood, Buckinghamshire. August 1937. Adults including macropterous female. EMM73:272]

*Himacerus boops* (Schjødte) (Nabidae)

Running with ants, beneath a clump of *Viola* growing in short, close turf in a disused clay-pit. Reared on aphids and small caterpillars. After four moults became a macropterous female [Hedgerley, Buckinghamshire. 10 June 1953. Nymph. EMM89:303]  
 Under a thick mat of *Festuca rubra* [Bald Hill, Oxfordshire. 17 June 1960. Female brachypter. EMM96:152]  
 On downs [Wescott, Surrey. 30 June 1935. LondonHets]  
 On or at the roots of ling [Oxshott Heath/Esher Common, Surrey. 12 July 1952. PTSLENHS1952-53:83-84]  
 Under old straw on sandy heathland [Hotham Carrs, SE Yorkshire. 18 July 1971. Male. EMM108:231]  
 Sweeping rank grass [Bookham Common, Surrey. 30 July 1951. PTSLENHS1951-52:13]  
 Roots of grass [Imperial College Biological Field Station, Slough. 30 July 1934. Macropter. TSBE2:47-67]  
 From a tuft of grass [Tidworth Pennings, Wiltshire. 29 July 1920. Macropter. EMM57:18-19]  
 Searching at the roots of grasses on a chalky slope [Coombe Hill, Buckinghamshire. 2 August 1954. Macropterous female. EMM90:301]  
 Searching at the roots of grass in a very dry place [West Walton, Norfolk. 5 August 1901. EMM38:80]  
 Sweeping long grass [Farnham Park, Surrey. 7 August 1997. EMM134:265-266]  
 Sweeping [Slindon, Sussex. 14 August 1905. EMM43:110]  
 In mouse runs among *Festuca* [Orsett, South Essex. 7 September 1938. EMM79:199]  
 In long grass [Bookham Common, Surrey. July. LondonHets]  
 At the roots of marram [Brean, Somerset. EMM68:41-42]  
 On sandhills amongst Marram grass [Deal, Kent. TSBE11:245-280]  
 Amongst rough grass on waste ground [East Malling, Kent. TSBE11:245-280]  
 Beneath *Erica tetralix* [Foxhall Heath, Suffolk. August. SuffolkHets]  
 Under *Calluna*, under grass tufts on gravel mounds, and under *Galium/Rumex* [Hounslow Heath, Middlesex. Ent86:34-40]  
 On grass [Mitcham Common, Surrey. September 1983. LondonHets]  
 Under heath [Near Gomshall, Surrey. Late August 1890. Male and female brachypters. EMM26:296]  
 At the roots of tall grass on sandhills [Near Lowestoft, Suffolk. August 1891. EMM27:277]  
 Under heath [Parkhurst Forest, Isle of Wight. First half of August 1907. EMM43:253-254]  
 Sweeping long grass [Pond Wood NR, Hertfordshire. Late June 2005. HN8:12]  
 Sweeping [Sandy Heath, Bedfordshire. 2011. HN22:7]

*Himacerus major* (A. Costa) (Nabidae)

- Roots of grass. In culture seen to feed on aphids, and the larvae of sawfly, syrphid and *Mamestra brassicae* [Imperial College Biological Field Station, Slough. 14 July 1933. TSBE2:47-67]
- On or at the roots of ling [Oxshott Heath/Esher Common, Surrey. 12 July 1952. PTSLENHS1952-53:83-84]
- At roots of *Achillea millefolium* [Blackheath, Kent. 20 July 1964. Nymphs. LondonHets]
- On a seawall [Dell Quay, VC13. 23 July 2009. Hem6:231]
- In ground layer of wood chips [Cockhayne Hatley Wood, Bedfordshire. 3 August 1947. EMM86:6-8]
- On ground in marsh [Hockliffe, Bedfordshire. 8 August 1944. EMM81:183-185]
- In reed swamp, feeding on adult leaf-hoppers [Treborth, Caernarvonshire. 8 August 1954. Females. EMM92:54-64]
- On a salt marsh [Higham Marshes, Kent. 12 August 1962. PTSLENHS1962:97-98]
- At the roots of marram-grass on sand dunes [Llandudno. 15 August 1936. EMM73:90-91]
- Sweeping tall, dry, dead grass [Gravesend, Kent. 16 August 1951. LondonHets]
- In haystack [Near Hipsey Spinney, Fancott, Bedfordshire. 16 August 1945. EMM86:6-8]
- Sweeping grass [Epping Forest, Essex. 29 August 1925. LondonHets]
- Feeding on the fly *Sargus bipunctatus* on rank grassland [Slopes of Bredon Hill, Eckington, Worcestershire. 30 August 2008. Adult. EMM145:32]
- Arable fields [West Pentire Farm, Crantock, Cornwall. 31 August 2006. CornwallHets]
- Under hay-stack refuse [Lee, Kent. 8 September 1894. LondonHets]
- On herbage in old sand-pit [Fancott, near Toddington, Bedfordshire. 13 September 1944. EMM81:183-185]
- Under refuse [Kidbrooke, Kent. 15 September 1894. LondonHets]
- Under *Calluna* [Oxshott Heath, Surrey. 15 September 1963. LondonHets]
- On grass in a garden [Epping Forest, Essex. 18 September 1921. LondonHets]
- Tapping the overhanging thatch of a compost heap [Glendurgan Gardens, West Cornwall. 16 September 1993. BJENH13:106-107]
- Beating vegetation clumps growing on a sea cliff [Porthallow, West Cornwall. 23 September 1993. BJENH13:106-107]
- On herbage in arable field [Houghton Regis, Bedfordshire. 2 November 1944. EMM81:183-185]
- In dry meadow [Aberystwyth, Cardiganshire. 1954-5. EMM92:54-64]
- On reeds [Alderton, Suffolk. July. SuffolkHets]
- Sandhills [Arklow, Wicklow. September 1928. IrelandHets]
- Under *Ononis* on sandhills [Ballyteige, Wexford. August 1931. IrelandHets]
- In a garden, sweeping, at roots and in rubbish on the ground [Blackheath Park, London. Adults. EMM107:17]
- Amongst litter [Buckingham Palace Garden. PTSLENHS1963Part2:75-98]
- On a demolition site [Derby. 1982. EMM120:253-258]
- On *Malva sylvestris* [Freston, Suffolk. SuffolkHets]
- Under *Calluna* [Hounslow Heath, Middlesex. Ent86:34-40]
- In culture, eggs preyed upon by the mite *Anystis agilis* [Imperial College Field Station, Silwood Park, Ascot, Berkshire. Eggs. EMM103:58-59]
- Amongst *Juncus*. Fed on the leafhopper *Conomelus anceps* [Imperial College Field Station, Silwood Park, Berkshire. Nymphs and adults. EMM99:157-161]
- Higher sweepnet catches by night than by day on grassland [Imperial College Field Station, Sunninghill, Ascot, Berkshire. 1957. Adults and nymphs. EMM97:128-130]
- Sweeping in open spaces [Kidbrooke, Kent. September 1911. LondonHets]
- On sandhills [Llandudno. Late August and early September 1924. EMM61:62-63]
- On sandhills. In culture observed to be cannibals [Near Lowestoft, Suffolk. August 1891. Nymphs. EMM27:277]
- On grassland on naturally-colonised derelict land [North-west England. 1987. Ent112:10-16]
- On ruderal vegetation and grassland, on naturally vegetated derelict land [North-west England. 1987/88. EG43:221-226]
- On sandhills [Pembrokeshire coast. 1927. Ent60:283-284]

In a light trap [Rothamsted Experimental Station, Harpenden. 1933-1935. Females.  
PRESL(A)13:19-24]

Sweeping [Rothamsted Farm, Harpenden. 1954. Female and male. TRESL112:173-220]  
Meadow [Slaney, Wexford. August 1925. IrelandHets]

Reed swamp [Treborth, Caernarvonshire. August 1954. Male. EMM92:54-64]

On sand dunes [Whiteford Burrows, Gower coast, South Wales. Ent100:157-165]

*Ononis-Ammophila* association [Ynyslas, Cardiganshire. EMM92:54-64]

*Himacerus mirmicoides* (O. Costa) (Nabidae)

Under heather [Gravesend, Kent. 14 April 1946. LondonHets]

Sweeping [Coulsdon, Surrey. 30 April 1961. LondonHets]

Weedy hillside [Cotehele, Cornwall. 19 June 1989. CornwallHets]

Feeding on root-feeding Aphidae [Hillingdon, Middlesex. 17 June 1936. Nymphs. Ent71:148-153]

Sweeping roadside vegetation [Cadsonbury, Cornwall. 22 June 1989. CornwallHets]

On stinging nettles [Northward Hill NNR, Kent. 25 June 1977. PTBENHS11:67-68]

On an old *Brassica* seedbed overgrown with weeds [Starcross, South Devon. 5 July 1944.  
Ent88:89-91]

Sweeping, in company with the ants *F. fusca* and *A. (D.) niger*. Another found running over a nest  
of *A. (D.) niger* [Porthcothan Bay, Cornwall. 9 July 1920. Nymphs. ERJV33:21-25]

Sweeping [Witley Common, Surrey. 10 July 2011. Hem6:244]

On a stone covering a nest of *Lasius niger* [Flagstaff Quarry, near Penmon, Anglesey. 15 July  
1984. Nymph. EMM123:76]

On arable land [West Pentire Headland, near Newquay, West Cornwall. 11 July 2003.  
BJENH18:165-170]

Sweeping grasses [Aberystwyth, Cardiganshire. 17 July 1955. Nymphs. EMM92:54-64]

Weedy grassland [Boheterick, Cornwall. 19 July 2006. CornwallHets]

On willow trees [Boxmoor, Hertfordshire. 25 July 1946. Nymph. EMM85:249-253]

Sucking a female *Plagiognathus arbustorum* [Chale, Isle of Wight. 24 July 1906. Nymph.  
EMM57:57-61 & 79-81]

Running on paths in company with *Formica fusca* and *A. (D.) niger* [Chale, Isle of Wight. 24 July  
1906. Nymphs. EMM57:136-138]

On hare's foot trefoil, *Trifolium arvense*, in disused sand-pit [Taplow, Buckinghamshire. 23 July  
1952. Adults and nymphs. EMM88:255]

In rougher grassy areas on motorway verges [Beside M4, VC7. 27 July 2017. Hem6:264]

Sweeping [Browdown, Hampshire. 29 July 1983. Winged form. PTBENHS17:18]

In gravel pit [Datchet, Buckinghamshire. 5 August 1952. LondonHets]

At base of grass stem [Imperial College Biological Field Station, Slough. 4 August 1933.  
TSBE2:47-67]

Grubbing on hillside in chalk-pit [Otford, Kent. 3 August 1961. Nymph. LondonHets]

On a *Chamaecyparis lawsoniana* in a garden 2.8 metres up [Persore, Worcestershire. 1 August  
2005. Female macropter. EMM141:248]

Running in the company of *F. fusca* v. *globaria* [Sandown, Isle of Wight. 3 August 1913. Nymphs.  
EMM57:136-138]

In nest of *F. rufa* [Tubney. 4 August 1909. Nymph. EMM57:136-138]

Under *Medicago lupulina*, black medick [Datchet, Buckinghamshire. 6 August 1952. Including  
macropters. EMM88:255]

Taken with *A. (C.) flavus* [Ryde, Isle of Wight. 6 August 1909. Nymph. AntGuests]

Running about with *F. fusca* v. *globaria*, and among *Acanthomyops flavus* and *A. (D.) alienus*  
[Sandown, Isle of Wight. 10 August 1913. Nymphs. EMM57:136-138]

On ground in open oak-birch wood [Beechwood Wood, Studham, Bedfordshire. 12 August 1960.  
Macropter. EMM97:32-33]

With a lacewing larva as prey [Bromley, Kent. 12 August 1967. LondonHets]

Sweeping by the side of a marsh, in company with *Myrmica scabrinoides*. Also sweeping in the  
marsh itself [Near Chichester. 17 August 1920. Nymph. ERJV33:21-25]

Beating nettles [Walham, near Gloucester. 19 August 1943. EMM80:18-19]

Beating broom, *Cytisus scoparius* [Ash Vale, Surrey. 21 August 1951. Macropter. EMM87:274]  
 Off *Calluna* on dry acid hillside [South Penquite Farm, Cornwall. 25 August 2005. CornwallHets]  
 Under refuse [Bookham Common, Surrey. 27 August 1896. LondonHets]  
 On birch [Boxhill, Surrey. 29 August 1896. LondonHets]  
 In gravel pit [Dartford Marshes, Kent. 26 August 1953. Nymph. LondonHets]  
 On path [Gravesend, Kent. 28 August 1946. Nymph. LondonHets]  
 Sweeping [Reigate, Surrey. 3 September 1898. LondonHets]  
 Amongst low herbage in a chalk pit [Darenth, Kent. 10 September 1960. LondonHets]  
 In long grass [Mounton, Chepstow. 9 September 1944. EMM91:143]  
 On cliffs, in company with *Formica fusca* [Ventnor, Isle of Wight. 9 September 1922. Nymph. ERJV35:1-9]  
 On dry stem of *Rumex* [Imperial College Biological Field Station, Slough. 15 September 1934. TSBE2:47-67]  
 On *Urtica* [Uxbridge, Middlesex. 12 September 1935. Ent71:148-153]  
 Tapping the overhanging thatch of a compost heap [Glendurgan Gardens, West Cornwall. 16 September 1993. BJENH13:106-107]  
 In a nest of *F. sanguinea* [Wellington College. 17 September 1906. Nymph. EMM57:136-138]  
 Beating vegetation clumps growing on a sea cliff [Porthallow, West Cornwall. 23 September 1993. BJENH13:106-107]  
 Sweeping [Bookham Common, Surrey. 26 September 1964. Adults. LondonHets]  
 Inside dehiscent cupule on low branch of beech tree [Carshalton, Surrey. 1 October 1950. Females. LondonHets]  
 Sweeping [Tubney, Berkshire. 5 October 1924. Male macropter. EMM60:261]  
 Sweeping [Coulsdon, Surrey. 9 October 1951. LondonHets]  
 Amongst low herbage in a chalk pit [Darenth, Kent. 9 October 1963. LondonHets]  
 Under herbage [Hounslow Heath, Middlesex. 22 October 1959. Adult. LondonHets]  
 Wandering about on fence posts after dark (8PM GMT) [Kent. 10 November 1945. EMM82:236]  
 In old strawstack [The Hog's Back, Surrey. 7 December 1950. LondonHets]  
 Amongst litter of *Pteridium* [Aberystwyth, Cardiganshire. 1954-5. EMM92:54-64]  
 On sandhills [Arklow, Wicklow. September 1928. Macropter. IrelandHets]  
 Sandhills [Ballyteige, Wexford. August 1931. Nymphs. IrelandHets]  
 In an actinic light trap [British Isles. May 1998. BJENH12:35]  
 Running about in company with *Formica fusca* [Chale, Isle of Wight. Nymph. EMM57:57-61 & 79-81]  
 Gravel pits [Clonmel, South Tipperary. July 1928. Nymphs. IrelandHets]  
 Quarry [Clonmel, Waterford. July 1928. IrelandHets]  
 On salt marsh [County Cork. Ent67:129-130]  
 River bank [Enniskerry, Wicklow. September 1931. IrelandHets]  
 Off marshy ground near a stream [Ferring-on-Sea. August 1932. EMM69:21]  
 Running with the ant *Ponera punctatissima* in a rubbish dump [Holt, near Wimborne, Dorset. 1953. Nymphs. EMM108:61]  
 Under and around *Rumex* on a gravel/ash/rubble tip [Hounslow Heath, Middlesex. Ent86:34-40]  
 Under *Matricaria* on sea banks, in company with *Formica fusca*, running actively together [Howth, County Dublin. July 1909. Adults and nymphs. IrelandHets]  
 Sandy coasts, sea banks, embankments and gravel pits [Ireland. IrelandHets]  
 Sands [Magherabeg, Wicklow. July 1926. IrelandHets]  
 Under plants overgrowing a low wall surrounding a mill-dam. At grass roots on sand cliffs a few feet above high water mark. Sweeping hedgerows [Mundesley, Norfolk. September 1925. EMM63:12-13]  
 From a hedge [Near Faversham, Kent. 1903. EMM40:100-103]  
 On overgrown allotments [Old Woking, Surrey. August 1972. Adults and nymphs. PTBENHS5:146]  
 Taken for food by the ant *Lasius niger* on dry calcareous grassland [Oxford district. 1956. EMM97:135-137]  
 With *A. (D.) fuliginosus* and *A. (D.) niger* [Oxford district. Nymphs. AntGuests]

Sweeping [Pembrokeshire coast. 1927. Ent60:283-284]  
 In sand-pit [Reigate, Surrey. LondonHets]  
 Seen feeding on a second instar nymph of *Pentatoma rufipes* in an orchard [Sittingbourne. Adult. EMM81:86-87]  
 On cinder-covered ground [Slough, Buckinghamshire. 1953/54. Ent88:10-17]  
 Running about with *F. fusca* [Southwold. August. Nymph. ERJV35:1-9]  
 On nettles [Suffolk. SuffolkHets]  
 Running about in company with *Formica sanguinea* [Wellington College. Nymph. EMM57:57-61 & 79-81]

*Nabis brevis* Scholtz (Nabidae)

Sweeping on somewhat marshy ground [Along the canal between Byfleet and Weybridge. 25 August 1900. EMM36:227-228]  
 On somewhat marshy ground [Along the canal between Byfleet and Weybridge. 30 August 1902. Males. EMM38:269-270]  
 On somewhat marshy ground [Along the canal between Byfleet and Weybridge. 20 September 1902. Males. EMM38:269-270]  
 On somewhat marshy ground [Along the canal between Byfleet and Weybridge. 25 September 1902. Both sexes. EMM38:269-270]  
 Sweeping and searching at roots on marshy, heathy ground [British Isles. Various states of development of hemelytra. No true macropters. Butler1923]

*Nabis capsiformis* Germar (Nabidae)

At light [Porthgwarra, Cornwall. 21 November 2014. Female macropter. HN22:3]

*Nabis ericetorum* Scholtz (Nabidae)

From grass hummocks on a heath [Esher Common, Surrey. 23 March 1931. PSLENHS1931-32:49]  
 Under heather [South of Weavers Down, VC13. 17 May 2014. Hem6:231]  
 Bog [Tullamore, King's County. 25 May 1895. IrelandHets]  
 On heath and ling [Oxshott. 30 June 1951. PTSLENHS1951-52:73-74]  
 At the roots of heath [Oxshott, Surrey. 22 July 1950. PTSLENHS1950-51:74-75]  
 Sweeping ericaceous heath [Fleet Pond Nature Reserve, Fleet, VC12. 3 August 2010. Hem3:54]  
 Feeding on thrips in the inflorescences of *Matricaria inodora* in an orchard [Boxmoor, Hertfordshire. 23 August 1946. EMM85:249-253]  
 Sweeping heath [Shirley Common, Surrey. 1 September 1894. LondonHets]  
 On marrow in an orchard [Boxmoor, Hertfordshire. 10 September 1946. EMM85:249-253]  
 River banks [Glenmore, Kilkenny. 9 September 1929. IrelandHets]  
 Beating pines [Oxshott Heath, Surrey. 7 September 1958. LondonHets]  
 Marsh [Waterford. 6 September 1929. IrelandHets]  
 Beating *Calluna* on heath. On birch at edge of heath [Heath and Reach, Bedfordshire. 14 September 1944. EMM81:183-185]  
 Sweeping [Oxshott Heath, Surrey. 15 September 1963. Adults and nymphs. LondonHets]  
 Sea banks [Arklow, Wicklow. 18 September 1928. IrelandHets]  
 Under *Erica* [Ruislip Common, Middlesex. 20 September 1934. Ent71:148-153]  
 Shore [Lough Dun, Wicklow. 28 September 1909. IrelandHets]  
 On *Calluna vulgaris* [Tregaron Bog, Cardiganshire. 1 October 1954. Male and female. EMM92:54-64]  
 Under *Erica cinerea*. Sweeping *Erica tetralix* on the margin of a pond [Oxshott, Surrey. 15 October 1966. PTSLENHS1967:26-28]  
 Sweeping heath [Shirley Common, Surrey. 20 October 1894. LondonHets]  
 In sand pit [Woking, Surrey. 4 November 1920. LondonHets]  
 On heather [Along the canal between Byfleet and Weybridge. EMM38:269-270]  
 Only on heaths, under *Calluna* and *Erica* [British Isles. Various states of development of hemelytra. No true macropters. Butler1923]

On salt marsh [County Cork. Ent67:129-130]  
 On heather [Dumfriesshire. EMM73:234-235]  
 Under heath [Epping Forest, Essex. LondonHets]  
 In a damp place on cliffs [Howth, County Dublin. October 1912. IrelandHets]  
 In *Calluna* and *Erica* on high ground, in moorland districts, and in damp places on the coast [Ireland. IrelandHets]  
 On the moors [Kinloch, Isle of Rhum NNR. 1960. TSBE18:91-167]  
 On the cliffs [Kynance Cove, Cornwall. First week of September 1951. EMM89:17]  
 In salt marsh [Lough Hyne, West Cork. 1934. IrelandHets]  
 On heathy ground [Near Sarnan, Carmarthenshire. EMM48:108-111]  
 On heather [Orton, Cumberland. EMM51:145-146]  
 Under heather [Oxshott Heath, Surrey. July and October 1954. LondonHets]  
 On heaths [Suffolk. SuffolkHets]

*Nabis ferus* (Linnaeus) (Nabidae)

In moist ground debris [Dyer's Hall Swamp, Bedfordshire. 25 January 1948. EMM86:6-8]  
 In grass roots [Caterham, Surrey. 3 February 1968. LondonHets]  
 From grass hummocks on a heath [Esher Common, Surrey. 23 March 1931. PSLENHS1931-32:49]  
 Sweeping dead grass [Blakeway Coppice, Shropshire. 30 March 1950. EMM91:237]  
 In a garden [Datchet, Buckinghamshire. 30 March 1953. LondonHets]  
 Sand-dunes [Hayling Island, Hampshire. 10 April 1948. Females. EMM85:193-206]  
 Sweeping. Copulated in culture with female *N. rugosus* [Harpendon, Hertfordshire. 21 April 1953. Male. EMM89:294]  
 Sweeping [Coulsdon, Surrey. 15 May 1962. LondonHets]  
 Sweeping acid grassland [South of Weavers Down, VC13. 31 May 2014. Hem6:231]  
 Sweeping [Epping Forest, Essex. 8 June 1962. Adult. LondonHets]  
 On an old *Brassica* seedbed overgrown with weeds [Starcross, South Devon. 5 July 1944. Ent88:89-91]  
 On arable land [West Pentire Headland, near Newquay, West Cornwall. 11 July 2003. BJENH18:165-170]  
 Sweeping and on flowers of Michaelmas daisy [Blackheath, Kent. 15 August 1959. LondonHets]  
 Aerial netting at 50 ft over a grass sports field [Cardington, near Bedford. 12 August 1947. PRES(A)24:128-130]  
 Sweeping [Coulsdon, Surrey. 13 August 1964. LondonHets]  
 Haymeadow [Highgrove House, Gloucestershire. 17 August 1995. GloucsHets]  
 In light trap [In the grounds of Rothamsted Experimental Station, Harpenden, Hertfordshire. 20 August 1955. LondonHets]  
 Mossy outcrop in relict dry acid grassland [South Penquite Farm, Cornwall. 25 August 2005. CornwallHets]  
 Sweeping *Deschampsia* grassland [Ruislip NR, Middlesex. 31 August 1962. Male. LondonHets]  
 Cutting [Swanscombe, Kent. 27 August 1961. LondonHets]  
 In a mercury vapour light trap [Whetstone, Hertfordshire. 29 August 1961. Male. LondonHets]  
 Chalk pit [Darenth, Kent. 4 September 1964. LondonHets]  
 Sweeping dead grass [Blakeway Coppice, Shropshire. 11 September 1949. EMM91:237]  
 On herbage in old sand-pit [Fancott, near Toddington, Bedfordshire. 13 September 1944. EMM81:183-185]  
 Beating *Calluna* on heath [Heath and Reach, Bedfordshire. 14 September 1944. EMM81:183-185]  
 Sweeping woods [Oxshott Heath, Surrey. 15 September 1963. Adult. LondonHets]  
 On herbage in old chalk-pit workings [Totternhoe, Bedfordshire. 13 September 1944. EMM81:183-185]  
 Sweeping [Coulsdon, Surrey. 19 September 1964. LondonHets]  
 Sweeping, beating and at roots of herbage [Boxhill, Surrey. 24 September 1959. LondonHets]  
 Sweeping [Coulsdon, Surrey. 21 September 1963. LondonHets]

- Beating vegetation clumps growing on a sea cliff [Porthallow, West Cornwall. 23 September 1993. BJENH13:106-107]
- Within a compost heap [Broadway, Worcestershire. 29 September 1987. Female. EMM127:10]
- Roots of grass [Imperial College Biological Field Station, Slough. 26 September 1934. TSBE2:47-67]
- Sweeping grasses [Mitcham Common, Surrey. 26 September 1983. LondonHets]
- Sweeping round a lake [Wisley, Surrey. 26 September 1911. LondonHets]
- In a sand pit [Egham, Surrey. 15 October 1955. LondonHets]
- Under *Erica cinerea* [Oxshott, Surrey. 15 October 1966. PTSLENHS1967:26-28]
- Sweeping [Erith Marshes, Kent. 16 October 1959. LondonHets]
- In litter [Blackheath, Kent. 24 October 1959. LondonHets]
- In dead leaves [Blackheath, Kent. 21 November 1959. LondonHets]
- Beneath *Ononis* among marram grass [Anglesey. September 1923. EMM60:37-39]
- On dunes [Bar Point, St Mary's, Scilly Isles. August 1964/65. EMM102:67-69]
- Amongst tidal debris on a beach [Brownsea Island, Poole Harbour, Dorset. 2006/7. EG60:37-71]
- At roots of grass [Buckland Hill, Surrey. LondonHets]
- In a suction trap [Cardington, Bedfordshire. August 1955. Female. TRESL112:173-220]
- Sweeping [Cumberland. 1916. EMM53:112-113]
- On a demolition site [Derby. 1982. EMM120:253-258]
- Sweeping rough herbage [Dumfriesshire. EMM73:234-235]
- On cultivated raspberries [East Scotland. Adults and nymphs. EMM88:51-62]
- In gizzard of Great Tit [Forest of Dean, Gloucestershire. 1948-51. EMM92:68-71]
- Beneath *Calluna* on a heath [Hounslow Heath, Middlesex. 1952. LondonHets]
- Under *Calluna* [Hounslow Heath, Middlesex. Ent86:34-40]
- Higher sweepnet catches by night than by day on grassland [Imperial College Field Station, Sunninghill, Ascot, Berkshire. 1957. Adults and nymphs. EMM97:128-130]
- Grassy areas and dunes [Kilmory and Kinloch, Isle of Rhum NNR. 1960-61. TSBE18:91-167]
- At diffused tungsten-filament light [Little Comberton, Worcestershire. 1995. EG48:23-33]
- On ruderal vegetation and grassland, on naturally vegetated derelict land [North-west England. 1987/88. EG43:221-226]
- Under *Ononis* on sandhills [Pendine, Carmarthenshire. EMM48:108-111]
- Sweeping [Redhill, Surrey. LondonHets]
- In a suction trap [Rothamsted Experimental Station, Harpenden. 1953. Female and males. TRESL112:173-220]
- In a light trap [Rothamsted Experimental Station, Harpenden. 1933-1935. Females and males. PRESL(A)13:19-24]
- In a light trap [Rothamsted Experimental Station, Harpenden. 1947-1949. TRESL112:173-220]
- Suction sampling [Rothamsted Farm, Harpenden. 1954. Female. TRESL112:173-220]
- Sweeping [Rothamsted Farm, Harpenden. 1954. Female. TRESL112:173-220]
- In a light trap [Rothamsted Manor Wood, Harpenden. July 1949. Males. TRESL112:173-220]
- At light [School of Agriculture, Bangor, Gwynedd. EMM123:76]
- On heaths [Suffolk. SuffolkHets]
- Under *Calluna erica* [Suffolk. SuffolkHets]
- Sweeping [Suffolk. November. SuffolkHets]
- River bank [Waterford. September 1929. IrelandHets]
- Meadows [Wexford. July 1925. IrelandHets]
- In a mercury vapour light trap in a garden [Whetstone, Hertfordshire. August 1960. EG16:163-168]
- On sand dunes [Whiteford Burrows, Gower coast, South Wales. Ent100:157-165]

*Nabis flavomarginatus* Scholtz (Nabidae)

- In a meadow [Grove Park, Kent. 2 July 1900. LondonHets]
- In hayfield [Trawscoed, Cardiganshire. 7 July 1950. Females. EMM92:54-64]
- Sweeping amongst heather [Prees Heath, near Whitchurch, Shropshire. 12 July 1925. Adults including macropters. EMM61:207]

Sweeping grass [Llangurig, Montgomeryshire. 21 July 1955. Male and female. EMM92:54-64]  
 In gravel pit [Tingrith, Bedfordshire. 25 July 1948. EMM86:6-8]  
 Sweeping *Dactylus glomerata* [Tregaron Bog, Cardiganshire. 22 July 1955. Males. EMM92:54-64]  
 Amongst rushes [Legrave Marsh, Bedfordshire. 31 July 1945. EMM86:6-8]  
 On pasture, on a heathy field, and on the margins of a bog [Loch Lomond NNR, Dumbartonshire. 8 August 1967. EMM114:21-24]  
 In dry meadow [Aberystwyth, Cardiganshire. 13 August 1955. EMM92:54-64]  
 Under cut grass [Bookham Common, Surrey. 20 August 1894. LondonHets]  
 Sweeping nettles [Kidbrooke, Kent. 11 September 1897. LondonHets]  
 On *Calluna vulgaris* [Tregaron Bog, Cardiganshire. 2 October 1954. Female. EMM92:54-64]  
 Sweeping [Anglesey. August 1932. EMM68:231-232]  
 On cinder path near railway [Broomhill, Glasgow, Lanarkshire. 16-25 September 1957. EMM94:93]  
 On heathland [Brownsea Island, Poole Harbour, Dorset. 2006/7. EG60:37-71]  
 At the roots of rushes [Chobham. August/September 1882. EMM19:140]  
 On salt marsh [County Cork. Ent67:129-130]  
 Sweeping [Deal. July/August 1882. Developed female. EMM19:85-88]  
 On heather [Dumfriesshire. 1934. EMM71:164]  
 At the roots of rushes [Gracious Pond, Chobham. 1876. EMM13:113-114]  
 Sweeping [Guestling, near Hastings. 1883. EMM20:189-190]  
 Amongst *Juncus*. Fed on the leafhopper *Conomelus anceps* [Imperial College Field Station, Silwood Park, Berkshire. Nymphs and adults. EMM99:157-161]  
 Higher sweepnet catches by night than by day on grassland [Imperial College Field Station, Sunninghill, Ascot, Berkshire. 1957. Adults and nymphs. EMM97:128-130]  
 In marshy ground [Kilmory and Kinloch, Isle of Rhum NNR. 1960-63. TSBE18:91-167]  
 From sandhills [Lincolnshire. Butler1923]  
 Salt marsh [Lough Hyne, West Cork. 1934. IrelandHets]  
 Sweeping acid grassland [Mitcham Common, Surrey. EMM123:77-81]  
 Sweeping grass [Near Bramlingham Pond, Bedfordshire. 1942. EMM86:6-8]  
 In a field [Near Loch Rannoch. EMM4:93-100]  
 In a chalk-pit [Near Maidenhead. Butler1923]  
 On grassland on naturally-colonised derelict land [North-west England. 1987. Ent112:10-16]  
 On ruderal vegetation and grassland, on naturally vegetated derelict land [North-west England. 1987/88. EG43:221-226]  
 Sweeping and in pitfall traps on sheep-grazed upland pasture [Redesdale, Northumberland. 1990. Ent113:70-81]  
 Sweeping low herbage [Shaw Common, near Newent, Gloucestershire. EMM80:18-19]  
 In a swamp [Slough, Buckinghamshire. 1959. Female macropters. EMM96:13]  
 In salt marshes [Southwold, Suffolk. August 1904. Developed specimen. SuffolkHets]  
 On dunes overgrown by wasteland weeds and around cultivated areas [St Martin's and St Mary's, Scilly Isles. August 1964/65. EMM102:67-69]  
 On reeds [Suffolk. SuffolkHets]  
 Sweeping [Swalecliffe, North Kent. August 1897. Developed female. EMM33:236]  
 Sweeping dry sheep pastures [Valley of the North Tyne between Wark and Bellingham, Northumberland. July 1918. EMM54:252-253]

*Nabis limbatus* Dahlbom (Nabidae)

Sweeping *Juncus effusus* [Thornden Wood, Blean Woods, Kent. 13/14 June 1981. PTBENHS15:31-32]  
 Sweeping *Juncus* in a damp patch [Chobham Common, Surrey. 27 June 1959. Female macropter. EMM96:13]  
 In a wood [Lullingstone Park, Kent. 4 July 1970. LondonHets]  
 In a swamp [Slough, Buckinghamshire. 15 July 1959. Female macropter. EMM96:13]  
 On grass [Derwenlas, Montgomeryshire. 20 July 1955. Nymph. EMM92:54-64]

- By stream [Hafod, Cardiganshire. 17 July 1955. EMM92:54-64]  
 On grass [Llangurig, Montgomeryshire. 21 July 1955. Nymph. EMM92:54-64]  
 On grass [Rhayader, Radnor. 21 July 1955. Males and nymphs. EMM92:54-64]  
 On marshy ground adjoining a heath [Denny Bog, New Forest. 29/30 July 1978. PTBENHS12:134-135]  
 In the rides [Ranmore Common, Surrey. 30 July 1911. LondonHets]  
 Sweeping birch wood and on a bog [Loch Lomond NNR, Dumbartonshire. 8 August 1967. EMM114:21-24]  
 Sucking a fly, *Opomyza germinationis* [Near Newbury, Berkshire. 6 August 1906. Male. Butler1923]  
 In reed swamp, feeding on adult leaf-hoppers [Treborth, Caernarvonshire. 8 August 1954. Female. EMM92:54-64]  
 Seen to prey upon the fly *Opomyza germinationis* [Woodhay, near Newbury, Berkshire. 9 August 1906. Male. TRESL55:323-408]  
 Saltmarsh [Norway Inn, Cornwall. 13 August 2004. CornwallHets]  
 Feeding on a mirid [South Norwood Country Park, West Kent. 15 August 2015. BJENH29:122-125]  
 On inflorescences of *Angelica sylvestris* predating the Ichneumonid *Lissonota coracinus*. Description of feeding given [Cardiff, Wales. 18 August 1989. Female. EG41:231-233]  
 On grassland [Near Maidenhead, Berkshire. 21 August 1993. EMM130:225-226]  
 Sweeping damp areas of grass and *Potentilla* amongst *Ulex* [Caerlaverock NNR, Solway Firth, Dumfriesshire. 26 August 1970. EMM109:60]  
 Sweeping and beating at the edge of a wood [Hoyle's Mouth, Penally, Pembrokeshire. 27 August 1951. EMM88:22]  
 In long grass [Mounton, Chepstow. 9 September 1944. EMM91:143]  
 Sweeping ride verge [Cowhouse Bank, North York Moors. 13 September 2019. Blood-red form. Hem6:266]  
 Attacking a crane-fly, *Tipula paludosa*, in the grass of a hedge [Near Theydon Bois, Essex. 13 September 1905. Ent38:281-282]  
 Roots of grass [Imperial College Biological Field Station, Slough. 24 September 1934. TSBE2:47-67]  
 In a field [Boxhill, Surrey. 10 October 1911. Male and female. LondonHets]  
 Sweeping [Anglesey. August 1932. EMM68:231-232]  
 On heathland [Brownsea Island, Poole Harbour, Dorset. 2006/7. EG60:37-71]  
 On salt marsh [County Cork. Ent67:129-130]  
 At 1550 feet altitude [Craigallachie, Aviemore, Inverness-shire. 19-23 September 1955. EMM92:198]  
 Sweeping [Cumberland. 1916. EMM53:112-113]  
 In gizzard of Great Tit [Forest of Dean, Gloucestershire. 1948-51. EMM92:68-71]  
 Feeding on *Monalocoris filicis* [Hartlebury Common LNR, Worcestershire. EMM133:17-26]  
 From grassy areas [Hounslow Heath, Middlesex. Ent86:34-40]  
 Amongst *Juncus*. Fed on the leafhopper *Conomelus anceps* [Imperial College Field Station, Silwood Park, Berkshire. Nymphs and adults. EMM99:157-161]  
 Higher sweepnet catches by night than by day on grassland [Imperial College Field Station, Sunninghill, Ascot, Berkshire. 1957. Adults and nymphs. EMM97:128-130]  
 Sweeping [In the neighbourhood of Barton Mills, Suffolk. Middle of August 1928. EMM64:218]  
 Sweeping in hedgerow [Kegworth, Leicestershire. July 1932. EMM68:213-214]  
 In grassy and marshy areas [Kinloch, Kilmory and Papadil, Isle of Rhum NNR. 1960-62. TSBE18:91-167]  
 On ground flora in pine woods [Lake District. TSBE15:117-134]  
 Salt marsh [Lough Hyne, West Cork. 1934. IrelandHets]  
 From a hedge [Near Faversham, Kent. 1903. EMM40:100-103]  
 Sweeping in damp situations [Near Gretna, Dumfriesshire. EMM76:179-180]  
 In a deep-pit poultry house [Near Preston, West Lancashire. 1976-78. EMM116:13-15]

On ruderal vegetation and grassland, on naturally vegetated derelict land [North-west England. 1987/88. EG43:221-226]  
 Sweeping, but not in pitfall traps, on sheep-grazed upland pasture [Redesdale, Northumberland. 1990. Ent113:70-81]  
 In a grass stem on rough grassland. In culture, a female of *Polynema gracile* (Mymaridae) emerged [Rothamsted Experimental Station, Harpenden, Hertfordshire. February/March 1954. Egg. EMM92:162]  
 In a suction trap [Rothamsted Farm, Harpenden. 1954. Female. TRESL112:173-220]  
 Suction sampling [Rothamsted Farm, Harpenden. 1954. Females and males. TRESL112:173-220]  
 Sweeping [Rothamsted Farm, Harpenden. 1954. Females and males. TRESL112:173-220]  
 On salt marsh [Severn Estuary. August 1985/86. EG39:235-246]  
 Reed swamp [Treborth, Caernarvonshire. August 1954. Females. EMM92:54-64]

*Nabis lineatus* Dahlbom (Nabidae)

In cattle-grazed wet valley with *Molinia* tussocks [Cam Draught, Crackington, Cornwall. 11 July 1989. BJENH18:54]  
 On *Juncus* in salt marsh [Arklow, Wicklow. 17 July 1926. Nymphs. IrelandHets]  
 On reeds in a salt marsh [Southwold, Suffolk. 1 August 1904. Female macropter. Butler1923]  
 Among *Scirpus* on salt marsh [Blackwater, Essex. 25 August 1984. HSGN4:4]  
 Amongst rushes and sedges [Borth Bog, Cardiganshire. 23 August 1955. EMM92:54-64]  
 Sweeping [Chippenham Fen. 24 August 1898. EMM34:220-221]  
 Sweeping [Wicken Fen. 25 August 1898. EMM34:220-221]  
 On a salt marsh [Brough, SE Yorkshire. 30 August 1969. Female. EMM108:231]  
 In salt marsh [Inch, County Kerry. 27 August 1962. EMM98:207]  
 On *Juncus* on river bank [River Suir, Waterford. 8 September 1929. IrelandHets]  
 Marsh [Waterford. 6 September 1929. IrelandHets]  
 Sweeping [Beacon Lagoons, near Easington, South-east Yorkshire. 15 September 2019. Hem6:266]  
 On *Scirpus maritimus* [Arklow, Wicklow. 17 September 1928. Adults. IrelandHets]  
 Sweeping [Anglesey. August 1932. EMM68:231-232]  
 Infected with the fungus *Hirsutella citriformis* [British Isles. EMM94:103-105]  
 At the roots of rushes [Chobham. August/September 1882. EMM19:140]  
 Among rushes [Chobham. Ent10:9-15]  
 Sweeping in a marshy place [Chobham, Surrey. August 1876. LondonHets]  
 Sweeping in a marsh [Chobham, Surrey. EMM12:249-250]  
 On salt marsh [County Cork. Ent67:129-130]  
 In a marsh [Fritton Decoy, Suffolk. 1891. SuffolkHets]  
 In a marshy field covered with tall grass and rushes [Fritton, Suffolk. August 1891. EMM27:277]  
 Under rushes in a large damp field, where there were very thick and long-established growths of rushes [Near Fritton Decoy, Suffolk. Butler1923]  
 At the roots of rushes [Gracious Pond, Chobham. 1876. EMM13:113-114]  
 On dead heads of *Rumex* [Herringfleet, Suffolk. SuffolkHets]  
 On a salt marsh [Higham, Kent. The last week of August 1939. EMM75:277]  
 In marshes on or near the coast. Taken sweeping rushes (*Juncus*) [Ireland. IrelandHets]  
 Sweeping *Arundo*, *Carex*, *Juncus*, etc. in a partially dried-up piece of marsh ground [Isle of Sheppey. EMM23:139-140]  
 From sandhills [Lincolnshire. Butler1923]  
 On a boggy heath [Near Sarnan, Carmarthenshire. EMM48:108-111]  
 In dry litter on a low bank fringing a saltmarsh [Poole Harbour, Dorset. 1955. EMM91:282-283]  
 Preys upon the leafhopper *Euscelis obsoletus* on *Spartina anglica* growing in marsh [Poole Harbour, Dorset. EMM108:66-79]  
 On salt marsh [Severn Estuary. August 1985/86. EG39:235-246]  
 Sweeping [The Warren, near Dawlish, South Devon. August 1914. Brachypters. EMM51:220]  
 In marsh [Youghal, East Cork. August 1933. Adults. IrelandHets]

*Nabis pseudoferus* Remane (Nabidae)

- Sweeping long grass growing in the open [Ham Street Wood, East Kent. 2 July 1957. Female. EMM94:137]  
 On rough, open grassland not far from the sea [Near Sandwich, East Kent. 21 July 1957. EMM94:170]  
 In a grassy situation [Thetford Chase, Norfolk. 29 August 1957. Female. EMM94:137]  
 In long grass growing in the open [Ham Street Wood, East Kent. 5 September 1957. Males and a female. EMM94:137]  
 Sweeping grass on the margin of a wood [Ham Street Wood, East Kent. 12 September 1954. Female. EMM92:282-283]  
 Sweeping [Ham Street Woods. 18 September 1958. EMM95:96]  
 Taken on dunes [Barafundle Bay, Pembrokeshire. August/September 1963. Brachypterous female. EMM99:166]  
 In the sand dunes [Braunton Burrows, North Devon. August 1958. Males and females, one of the males brachypterous. EMM95:60]  
 Heathy sites [Cadnam and Matley, New Forest. 1959-60. EMM96:214]  
 At the roots of grass on sand dunes [Lowestoft, Suffolk. End of August 1957. Females. EMM94:137]  
 From the sand dunes [Studland, Dorset. August 1955. Brachypters. EMM95:60]

*Nabis rugosus* (Linnaeus) (Nabidae)

- At roots of grass and in moss [Ashridge, Hertfordshire. 2 January 1934. LondonHets]  
 On moist meadowland bordering a canal [Boxmoor, Hertfordshire. 15 April 1946. EMM85:249-253]  
 Sweeping [Coulsdon, Surrey. 14 April 1961. LondonHets]  
 In rotting stake in garden [Fiddler's Elbow, near Monmouth. 17 April 1945. EMM91:143]  
 Under broom [Farningham Wood, Kent. 22 April 1958. LondonHets]  
 Sweeping. Copulated in culture with male *N. ferus* [Harpendon, Hertfordshire. 21 April 1953. Female. EMM89:294]  
 Roots of grass [Imperial College Biological Field Station, Slough. 5 May 1933. TSBE2:47-67]  
 Sweeping [Coulsdon, Surrey. 12 May 1961. LondonHets]  
 Sweeping [Coulsdon, Surrey. 13 May 1961. LondonHets]  
 Catching visitors on flowers of *Alliaria* [Whipsnade, Bedfordshire. 11 May 1944. EMM81:183-185]  
 On wasteland [Aberystwyth, Cardiganshire. 21 May 1955. Female. EMM92:54-64]  
 Sweeping grass [Weybridge, Surrey. 25 May 1947. LondonHets]  
 In vegetation on a scarp [Caterham, Surrey. 29 May 1969. LondonHets]  
 Sweeping [Coulsdon, Surrey. 2 June 1961. LondonHets]  
 Sweeping [Epping Forest, Essex. 8 June 1962. Adult. LondonHets]  
 Sweeping [Abbey Wood, Kent. 25 June 1964. LondonHets]  
 On sand-hills [Culbin, Moray Firth. 21 June 1951. EMM87:255]  
 Sweeping and beating [Great Pen Wood, VC12. 25 June 2015. Hem3:54]  
 Sweeping and beating along a bridleway and dismantled railway line [Near Burghclere, VC12. 25 June 2015. Hem3:54]  
 Sweeping [Abbey Wood, Kent. 3 July 1962. LondonHets]  
 On an old *Brassica* seedbed overgrown with weeds [Starcross, South Devon. 5 July 1944. Ent88:89-91]  
 Amongst *Ononis-Ammophila* association [Ynyslas, Cardiganshire. 15 July 1955. EMM92:54-64]  
 Sweeping [Abbey Wood, Kent. 16 July 1962. LondonHets]  
 On *Dactylus glomerata* and other grasses [Aberystwyth, Cardiganshire. 17 July 1955. Nymphs. EMM92:54-64]  
 Sweeping grass [Derwenlas, Montgomeryshire. 20 July 1955. Nymphs. EMM92:54-64]  
 On grass [Rhayader, Radnor. 21 July 1955. Nymphs. EMM92:54-64]  
 Haymeadow [Highgrove House, Gloucestershire. 17 August 1995. GloucsHets]

- On herbage in marsh [Near Shire Oak, Heath and Reach, Bedfordshire. 28 August 1944. EMM81:183-185]  
 In vegetation on a scarp [Caterham, Surrey. 21 September 1968. LondonHets]  
 On birch [Epping Forest, Essex. 21 September 1932. LondonHets]  
 At roots of clover [Bostall Woods, Kent. 27 September 1958. Adult. LondonHets]  
 Sweeping round a lake [Wisley, Surrey. 26 September 1911. LondonHets]  
 On grass and *Juncus* area [Tregaron Bog, Cardiganshire. 2 October 1954. Males and females. EMM92:54-64]  
 Sweeping [Addington, Surrey. 6 October 1962. PTSLENHS1962:104]  
 In a field [Boxhill, Surrey. 10 October 1911. LondonHets]  
 Beneath *Euphorbia* on sandhills [Aberffraw, Anglesey. October. EMM93:56]  
 On the more grassy parts of somewhat marshy ground [Along the canal between Byfleet and Weybridge. EMM38:269-270]  
 Sweeping [Cumberland. 1916. EMM53:112-113]  
 In gizzard of Great Tit [Forest of Dean, Gloucestershire. 1948-51. EMM92:68-71]  
 With prey on the tip of a grass stalk. The prey was the click beetle *Agriotes acuminatus*, with the bug's rostrum inserted between the pronotum and the base of the right elytron [Grounds of Reading University, Berkshire. May 1945. EMM81:275]  
 Under *Calluna* [Hounslow Heath, Middlesex. Ent86:34-40]  
 Higher sweepnet catches by night than by day on grassland [Imperial College Field Station, Sunninghill, Ascot, Berkshire. 1957. Adults and nymphs. EMM97:128-130]  
 Among herbaceous plants [Lee and Darenth Wood. EMM12:154-155]  
 On a blackcurrent plantation [Long Ashton Research Station, Bristol. 1967. Adults and nymphs. Ent101:202-204]  
 In moss [Lough Gilly, Armagh. January. IrelandHets]  
 Sweeping acid grassland [Mitcham Common, Surrey. EMM123:77-81]  
 On grassland, on naturally vegetated derelict land [North-west England. 1987/88. EG43:221-226]  
 In a light trap [Rothamsted Experimental Station, Harpenden. 1935-1936. Males. PRESL(A)13:19-24]  
 In a light trap [Rothamsted Experimental Station, Harpenden. 1949. TRESL112:173-220]  
 Suction sampling [Rothamsted Farm, Harpenden. 1954. Female. TRESL112:173-220]  
 Sweeping [Rothamsted Farm, Harpenden. 1954. Females and male. TRESL112:173-220]  
 On wasteland [St Mary's, Scilly Isles. August 1964/65. EMM102:67-69]

*Prostemma guttula* (Fabricius) (Nabidae)

- On sandhills [Near Sandwich, Kent. September 1837. D&S1865]

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*Himacerus boops* (Schiødte) (Nabidae)

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*Himacerus major* (A. Costa) (Nabidae)

as *Anaptus major* BJENH13:106-107, EG43:221-226, EMM120:253-258, Ent112:10-16, GloucsHets, HSGN11:9, HSGN13:12, HSGN4:5, HSGN4:A10, HSGN7:A1, HSGN7:A2, LondonHets

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*Himacerus mirmicoides* (O. Costa) (Nabidae)

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*Nabis brevis* Scholtz (Nabidae)

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*Nabis capsiformis* Germar (Nabidae)

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*Nabis ericetorum* Scholtz (Nabidae)

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as *Nab. ericetorum* EMM91:7-27

as *Nabis dorsalis* D&S1865, EMM11:184-186, EMM12:154-155, EMM36:227-228, EMM4:30-33

as *Nabis ericetorum* BJENH2:53-54, BJENH21:205-214, Butler1923, CornwallHets, EMM11:184-186, EMM12:154-155, EMM133:17-26, EMM14:165-167, EMM25:237-238, EMM36:227-228, EMM38:269-270, EMM39:17-18, EMM43:196-202, EMM48:108-111, EMM51:145-146, EMM58:231, EMM60:117-118, EMM60:39, EMM62:21, EMM69:234-245, EMM73:234-235, EMM81:163-164, EMM81:183-185, EMM85:193-206, EMM85:249-253, EMM86:6-8, EMM89:17, EMM91:90-91, EMM92:221-225, EMM92:54-64, EMM94:183, EMM95:60, Ent47:146-147, Ent71:148-153, Ent92:6-13, GloucsHets, HantsHets, Hem1:48, Hem1:49, Hem1:6, Hem1:96, Hem2:15, Hem2:33, Hem3:105, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:54, Hem3:77, Hem4:104, Hem4:134, Hem4:29, Hem4:6, Hem4:72, Hem4:88, Hem5:105, Hem5:115, Hem5:122, Hem5:139, Hem5:156, Hem5:161, Hem5:18, Hem5:194, Hem5:206, Hem5:28, Hem5:42, Hem5:5, Hem5:58, Hem5:95, Hem6:231, Hem6:240, Hem6:277, Hem6:79, HN10:6, HN11:16, HN17/18:26, HSGN1:14, HSGN10:12, HSGN11:7, HSGN12:12, HSGN13:12, HSGN4:4, HSGN7:1, HSGN7:A1, HSGN7:A3, HSGN7:A4, IrelandHets, LondonHets, PSLENHS1900:11-14, PSLENHS1931-32:49, PTSLENHS1946-47:73-74, PTSLENHS1949-50:78, PTSLENHS1950-51:72-73, PTSLENHS1950-51:74-75, PTSLENHS1950-51:78-79, PTSLENHS1951-52:73-74, PTSLENHS1962:123-183, PTSLENHS1967:120-121, PTSLENHS1967:26-28, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TSBE1:51-84, TSBE11:245-280, TSBE14:147-166, TSBE15:117-134, TSBE16:1-48, TSBE18:91-167

as *Reduviolus ericetorum* Ent67:129-130

*Nabis ferus* (Linnaeus) (Nabidae)

as *N. ferus* EMM81:253-273

as *Nab. ferus* EMM91:7-27

as *Nabis ferus* BJENH13:106-107, BJENH18:165-170, BJENH28:5-15, BJENH28:62, Butler1923, CornwallHets, D&S1865, EG16:163-168, EG20:125-135, EG43:221-226, EG48:23-33, EG60:37-71, EMM102:67-69, EMM12:154-155, EMM120:253-258, EMM123:76, EMM127:10, EMM14:165-167, EMM16:172-175, EMM25:237-238, EMM29:35-37, EMM40:100-103, EMM48:108-111, EMM53:112-113, EMM60:37-39, EMM65:40-42, EMM69:234-245, EMM73:234-235, EMM74:20-21, EMM81:12, EMM81:183-185, EMM83:95, EMM85:193-206, EMM86:6-8, EMM88:51-62, EMM89:17, EMM89:216, EMM89:294, EMM91:237, EMM91:90-91, EMM92:282-283, EMM92:54-64, EMM92:68-71, EMM94:137, EMM94:170, EMM94:183, EMM94:287, EMM95:60, EMM96:214, EMM97:128-130, Ent100:157-165, Ent27:222, Ent86:34-40, Ent88:89-91, Ent92:6-13, GloucsHets, HantsHets, Hem1:33, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:33, Hem3:105, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:72, Hem3:77, Hem3:86, Hem4:104, Hem4:134, Hem4:148, Hem4:19, Hem4:29, Hem4:6, Hem4:72, Hem4:88, Hem5:105, Hem5:122, Hem5:139, Hem5:161, Hem5:18, Hem5:194, Hem5:206, Hem5:28, Hem5:42, Hem5:5, Hem5:58, Hem5:71, Hem5:95, Hem6:231, Hem6:283, Hem6:79, HN17/18:26, HN9:3, HSGN1:12, HSGN1:14, HSGN1:8, HSGN11:10, HSGN13:12, HSGN7:A1, HSGN7:A2, HSGN7:A3, HSGN7:A4, IrelandHets, JSBE5:179-186, LondonHets, PRESL(A)13:19-24, PRESL(A)24:128-130, PSLENHS1931-32:49, PTSLENHS1949-50:36-38, PTSLENHS1950-51:78-79, PTSLENHS1953-54:4, PTSLENHS1959:91, PTSLENHS1962:123-183, PTSLENHS1964:37-38, PTSLENHS1967:26-28, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TRESL112:173-220, TSBE1:51-84, TSBE11:245-280, TSBE18:91-167, TSBE2:47-67

*Nabis flavomarginatus* Scholtz (Nabidae)

as *Coriscus flavomarginatus* EMM14:186-187

as *Dolichonabis flavomarginatus* HSGN1:8

as *N. flavomarginatus* EMM81:253-273

- as *Nab. flavomarginatus* EMM91:7-27  
 as *Nabicula flavomarginata* EG43:221-226, Ent112:10-16, GloucsHets, HSGN13:12, HSGN7:A3, LondonHets  
 as *Nabicula flavomarginatus* Ent113:70-81, HSGN10:11, HSGN11:6, HSGN12:12, HSGN4:A10, HSGN7:A1, LondonHets  
 as *Nabis flavomarginata* EMM54:252-253  
 as *Nabis flavomarginatus* BJENH28:5-15, Butler1923, CornwallHets, EG20:125-135, EG60:37-71, EMM102:67-69, EMM114:21-24, EMM123:77-81, EMM13:113-114, EMM16:175, EMM18:276, EMM19:140, EMM19:85-88, EMM20:189-190, EMM29:35-37, EMM30:64-65, EMM33:236, EMM4:93-100, EMM44:275, EMM48:108-111, EMM52:66, EMM61:207, EMM61:62-63, EMM63:41-42, EMM64:62-64, EMM69:234-245, EMM7:45-53, EMM71:164, EMM80:75, EMM85:193-206, EMM86:6-8, EMM87:242-244, EMM92:221-225, EMM92:54-64, EMM93:49-51, EMM93:56, EMM94:93, EMM96:13, EMM97:128-130, EMM99:157-161, Ent27:222, Ent47:146-147, Ent86:34-40, ERJV47:13-14, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:22, Hem2:33, Hem3:105, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:77, Hem4:104, Hem4:134, Hem4:148, Hem4:19, Hem4:29, Hem4:6, Hem4:72, Hem4:88, Hem5:105, Hem5:115, Hem5:122, Hem5:139, Hem5:161, Hem5:18, Hem5:189, Hem5:194, Hem5:206, Hem5:28, Hem5:42, Hem5:5, Hem5:58, Hem5:71, Hem5:95, Hem6:277, Hem6:79, HN17/18:26, HSGN1:12, HSGN1:14, HSGN3:11, IrelandHets, JSBE1:131-141, PESL1876:xxvi, PTSLENHS1949-50:36-38, PTSLENHS1950-51:75-76, PTSLENHS1950-51:78-79, PTSLENHS1962:123-183, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TSBE11:245-280, TSBE14:147-166, TSBE15:117-134, TSBE18:91-167  
 as *Nabis flavo-marginatus* EMM68:231-232, EMM80:18-19  
 as *Nabis marginalis* EMM69:234-245  
 as *Reduviolus flavomarginatus* EMM61:115-117, Ent67:129-130

*Nabis limbatus* Dahlbom (Nabidae)

- as *Coranus limbatus* EMM14:186-187  
 as *D. limbatus* EMM81:253-273, EMM82:94-95  
 as *Dolichonabis limbatus* BJENH25:205-215, EG20:125-135, EG39:235-246, EG41:231-233, EMM109:60, EMM114:21-24, EMM116:13-15, EMM130:225-226, EMM133:17-26, EMM88:22, EMM92:198, EMM96:13, EMM97:128-130, EMM99:157-161, Ent67:129-130, HSGN1:12, HSGN1:14, HSGN1:8, HSGN3:11, PTBENHS12:134-135, PTBENHS15:31-32, PTBENHS18:30-31, PTSLENHS1962:123-183, S&L1959, TRESL112:173-220, TSBE14:147-166, TSBE15:117-134, TSBE18:91-167  
 as *Nab. limbatus* EMM91:7-27  
 as *Nabicula limbata* EG43:221-226, Ent113:70-81, GloucsHets, HSGN10:11, HSGN10:9, HSGN11:10, HSGN11:6, HSGN12:12, HSGN13:12, HSGN4:4, HSGN4:A9, HSGN7:A3  
 as *Nabicula limbatus* LondonHets  
 as *Nabis limbatus* BJENH25:205-215, BJENH28:5-15, BJENH29:122-125, BJENH32:239-240, Butler1923, CornwallHets, D&S1865, EG60:37-71, EG64:146-165, EMM12:249-250, EMM14:165-167, EMM25:457, EMM29:35-37, EMM3:118, EMM4:30-33, EMM40:100-103, EMM48:108-111, EMM53:112-113, EMM60:117-118, EMM60:39, EMM61:115-117, EMM61:62-63, EMM64:218, EMM64:62-64, EMM65:40-42, EMM68:213-214, EMM68:231-232, EMM69:234-245, EMM76:179-180, EMM85:193-206, EMM86:6-8, EMM91:143, EMM91:96-97, EMM92:162, EMM92:221-225, EMM92:313-325, EMM92:54-64, EMM92:68-71, EMM93:49-51, EMM94:93, Ent27:222, Ent38:281-282, Ent47:146-147, Ent86:34-40, Ent89:220-222, ERJV47:13-14, ERJV51:160-161, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:33, Hem3:106, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:77, Hem3:86, Hem4:104, Hem4:134, Hem4:148, Hem4:19, Hem4:29, Hem4:6, Hem4:88, Hem5:105, Hem5:115, Hem5:122, Hem5:139, Hem5:151, Hem5:161, Hem5:18, Hem5:189, Hem5:194, Hem5:206, Hem5:28, Hem5:42, Hem5:5, Hem5:58, Hem5:71, Hem5:95, Hem6:266, Hem6:268, Hem6:277, Hem6:80, HN17/18:26, IrelandHets, LondonHets, PTSLENHS1949-50:36-38, PTSLENHS1951-52:81, PTSLENHS1952-53:83-84,

Saunders1892, SuffolkHets, Synopsis1875, TRESL55:323-408, TSBE1:51-84, TSBE11:245-280, TSBE2:47-67

*Nabis lineatus* Dahlbom (Nabidae)

- as *D. lineatus* EMM81:253-273
- as *Dolichonabis lineatus* BJENH25:205-215, EG39:235-246, EMM108:231, EMM108:66-79, EMM85:152-156, EMM98:207, Ent67:129-130, PTSLENHS1962:123-183, S&L1959, TSBE14:147-166
- as *Nab. lineatus* EMM91:7-27
- as *Nabicula lineata* HSGN11:10, HSGN13:12, HSGN4:4, HSGN4:A9, HSGN6:3
- as *Nabicula lineatus* HSGN7:A3
- as *Nabis lineatus* BJENH18:54, BJENH25:205-215, Butler1923, CornwallHets, EMM12:249-250, EMM16:172-175, EMM17:278, EMM19:140, EMM23:139-140, EMM26:81-82, EMM27:277, EMM34:220-221, EMM44:275, EMM44:32-34, EMM48:108-111, EMM51:220, EMM63:41-42, EMM68:231-232, EMM69:234-245, EMM75:277, EMM91:282-283, EMM92:54-64, EMM94:103-105, Ent44:374, Ent47:146-147, ERJV23:326, ERJV47:13-14, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:42, Hem2:46, Hem3:106, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:77, Hem3:96, Hem4:104, Hem4:134, Hem4:148, Hem4:29, Hem4:6, Hem4:72, Hem4:88, Hem5:105, Hem5:115, Hem5:122, Hem5:156, Hem5:161, Hem5:194, Hem5:206, Hem5:28, Hem5:42, Hem5:5, Hem5:71, Hem5:95, Hem6:266, Hem6:268, Hem6:277, Hem6:80, HN15:13, HN17/18:26, IrelandHets, LondonHets, PSLENHS1898:16-23, PSLENHS1911-12:52, PTSLENHS1952-53:83-84, Saunders1892, SuffolkHets, TSBE11:245-280
- as *Nabis Poweri* EMM12:249-250, EMM13:113-114, EMM16:172-175, Ent10:9-15, PESL1876:xxvi, Synopsis1875

*Nabis pseudoferus* Remane (Nabidae)

- as *Nabis pseudoferus* CornwallHets, EMM92:282-283, EMM94:137, EMM94:170, EMM95:60, EMM95:96, EMM96:214, EMM99:166, Hem1:33, Hem1:48, Hem1:49, Hem1:7, Hem2:15, Hem3:43, Hem3:5, Hem3:72, Hem3:77, Hem3:86, Hem4:134, Hem4:29, Hem4:41, Hem4:6, Hem4:72, Hem5:105, Hem5:122, Hem5:194, Hem5:28, Hem5:5, Hem6:80, HN10:5, HN16:3, HN9:4, HN9:6, HSGN1:4, HSGN4:A7, HSGN7:1, HSGN7:A1, HSGN7:A2, HSGN7:A3, HSGN7:A4, HSGN8:9, JSBE6:55-56, PTBENHS19:55, PTSLENHS1956:111-136, PTSLENHS1962:123-183, PTSLENHS1963Part1:64, S&L1959, TSBE14:147-166

*Nabis rugosus* (Linnaeus) (Nabidae)

- as *N. rugosus* EMM81:253-273
- as *Nab. rugosus* EMM91:7-27
- as *Nabis rugosa* EMM65:40-42
- as *Nabis rugosus* BJENH21:205-214, BJENH28:5-15, BJENH9:111-115, Butler1923, CornwallHets, EG20:125-135, EG43:221-226, EMM102:67-69, EMM110:122, EMM12:154-155, EMM123:77-81, EMM133:17-26, EMM14:165-167, EMM25:237-238, EMM38:269-270, EMM43:196-202, EMM48:108-111, EMM53:112-113, EMM54:16-17, EMM60:117-118, EMM61:62-63, EMM64:62-64, EMM69:234-245, EMM71:164, EMM74:20-21, EMM80:201-203, EMM81:12, EMM81:183-185, EMM81:275, EMM85:193-206, EMM85:249-253, EMM86:6-8, EMM87:156, EMM87:255, EMM89:216, EMM89:294, EMM90:xxxix, EMM91:143, EMM91:90-91, EMM92:221-225, EMM92:282-283, EMM92:313-325, EMM92:54-64, EMM92:68-71, EMM93:56, EMM94:93, EMM97:128-130, EMM97:32-33, Ent10:9-15, Ent101:202-204, Ent27:222, Ent34:135, Ent47:146-147, Ent86:34-40, Ent88:89-91, ERJV92:189-190, GloucsHets, HantsHets, Hem1:33, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:33, Hem3:106, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:54, Hem3:77, Hem4:104, Hem4:134, Hem4:19, Hem4:29, Hem4:41, Hem4:6, Hem4:72, Hem4:88, Hem5:105, Hem5:115, Hem5:122, Hem5:161, Hem5:18, Hem5:189, Hem5:194, Hem5:206, Hem5:28, Hem5:42, Hem5:5, Hem5:58, Hem5:71, Hem5:95, Hem6:240, Hem6:277, Hem6:81, HN17/18:26, HN5:4, HSGN1:12, HSGN1:14, HSGN11:10, HSGN13:12, HSGN3:11,

HSGN7:1, HSGN7:A1, HSGN7:A3, HSGN7:A4, IrelandHets, LondonHets, PRESL(A)13:19-24, PSLENHS1905-06:52-53, PTBENHS11:130, PTBENHS11:67-68, PTSLENHS1946-47:77, PTSLENHS1949-50:36-38, PTSLENHS1950-51:77-78, PTSLENHS1950-51:78-79, PTSLENHS1951-52:72-73, PTSLENHS1951-52:81, PTSLENHS1953-54:4, PTSLENHS1954-55:81-83, PTSLENHS1958:73-74, PTSLENHS1959:91, PTSLENHS1962:104, PTSLENHS1962:123-183, PTSLENHS1964:37-38, PTSLENHS1966:34, PTSLENHS1967:83-85, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TRESL112:173-220, TSBE1:51-84, TSBE11:245-280, TSBE14:147-166, TSBE18:91-167, TSBE2:47-67

*Prostemma guttula* (Fabricius) (Nabidae)

as *Metastemma guttula* D&S1865, EMM4:30-33

as *P. guttula* EMM81:253-273

as *Prost. guttula* EMM91:7-27

as *Prostemma guttula* BJENH25:205-215, Butler1923, EMM36:94-101, Ent90:128-135, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem3:5, Hem4:134, Hem4:6, Hem4:72, Hem5:105, Hem5:18, Hem5:5, Hem6:81, HN17/18:26, HN9:2, HN9:4, HN9:6, HN9:7, HSGN1:4, HSGN7:A2, HSGN8:4, HSGN8:9, LondonHets, PTSLENHS1956:111-136, PTSLENHS1962:123-183, S&L1959, Saunders1892, Synopsis1875, TSBE11:245-280, TSBE14:147-166

### Tabulated summaries

On the following pages are summaries of the results of this review for each of the species in scope. The common name is that used in the literature consulted; or has been created from aspects of the species natural history. The first report is the first mention of the species in the literature consulted, starting at D&S1865. The ambiguities, if they occur, refer to the ambiguous species names of Hem2:4-8, Hem3:15-17, Hem5:14-15 and Hem5:114-118. The geographical distribution is based upon records published elsewhere in this journal; and is shown as a map from the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The presence of a vice-county record is shown with a black fill, and the absence with a white fill. The seasonal distribution is based on the heximonth records listed above and is shown as a calendar. The presence of an adult record is shown with a black fill, and the absence with a white fill, with a figure representing the number of distinct records in the above list. The existence of nymph and egg records is shown by the letters 'N' and 'E', respectively, without a figure. Heximonth records are assumed to be adult unless explicitly stated otherwise. The other details is a narrative constructed from the detailed records listed above. Aspects of the narrative which include records for nymphs or eggs are marked '(n)' or '(e)', respectively. Those that include winter records (which I define as 1st January to 31st March) are marked '(w)'. Habitus photographs of the species are included, where available.

***Himacerus apterus* (Fabricius) (Nabidae)**

*Common name.* The Tree Damselbug.

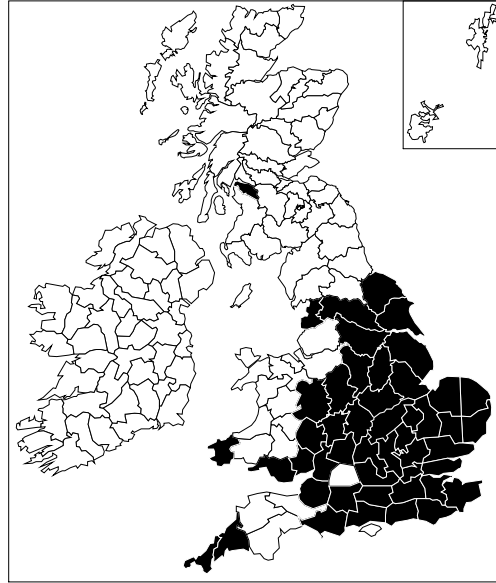
*First report.* D&S1865 as *Nabis brevipennis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from hedgerow, woods, and plantation; specifically from hazel, hop, hawthorn, nettle, oak, birch, pines, hornbeam, crab apple, willow, broom, grass, *Alnus*, juniper. It has been taken beating, sweeping, and on sugar on tree trunks at night. Seen attacking an Ichneumonid (*Pimpla inquisitor*) in a curled aspen leaf; and predating on the larvae of the moth *Ernarmonia pomonella* spinning a cocoon in a corrugated paper band tied around an apple tree. In culture, egg laid in chestnut wood.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May				1		2 N
June	2			1 N	1 N	N
July	1 N	N	1 N	2	3 N	2 N
August	4 N	12 N	11 N	7 N	4	8
September	7	14	9	7	4	5
October	1	2	2		1	3
November		1				
December						



***Himacerus boops* (Schjødte) (Nabidae)**

*Common name.* The Scarce Damselbug.

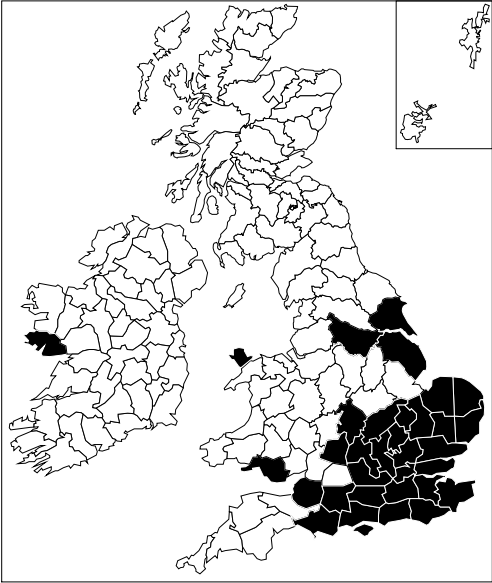
*First report.* EMM25:446-447 as *Stålia boops*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from waste ground, sandhills, downs, chalky slope, gravel mounds, and sandy heathland; specifically from grass, marram, heather, heath, and under old straw. It has been taken sweeping, at the roots/under plants, and in mouse runs among *Festuca*. Nymph seen running with ants, beneath a clump of *Viola* growing in short, close turf in a disused clay-pit. In culture, reared on aphids and small caterpillars, after four moults becoming a macropterous female.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June		N		1		1 N
July			1 N	1	1 N	4
August	4	3	2		1	
September		2				
October						
November	1					
December						

No habitus images are available.

***Himacerus major* (A. Costa) (Nabidae)**

*Common name.* The Grey Damselbug.

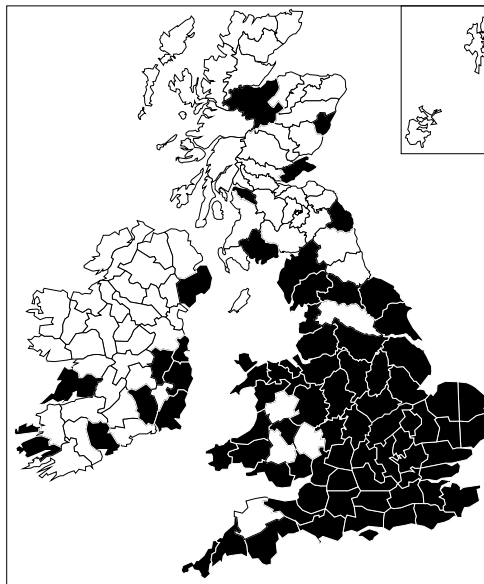
*First report.* D&S1865 as *Nabis flavomarginatus*.

*Ambiguities.* None reported.

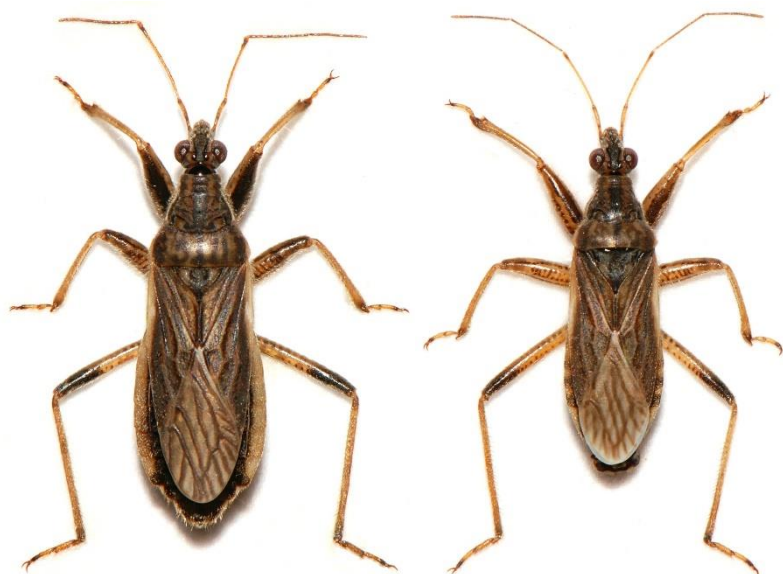
*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sandhills (n), meadow, demolition site, salt marsh, seawall, haystack, arable fields, sea cliff, grassland (n), garden, reed swamp, naturally-colonised derelict land, sand-pit; specifically from *Calluna*, *Ononis*, grass, ground layer of wood chips, *Juncus*, *Achillea millefolium* (n), marram, *Malva sylvestris*, and ling. It has been taken sweeping, beating vegetation clumps, under/at roots of plants (n), in a light trap, under and amongst litter, and tapping the overhanging thatch of a compost heap. Seen to feed on the leafhopper *Conomelus anceps* (n), and the fly *Sargus bipunctatus*. In culture observed to be cannibals (n); seen to feed on aphids, larvae of sawfly, syrphid, and *Mamestra brassicae*; and eggs preyed upon by the mite *Anystis agilis*.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March		1				
April						
May						N
June		N				1 N
July	3		6	2 N	3	6
August	1	5	3	4	4	8
September	6	5	5	10	5	2
October	1		1	1	1	
November	4	1		1		
December						



***Himacerus mirmicoides* (O. Costa) (Nabidae)**

*Common name.* The Ant Damselbug.

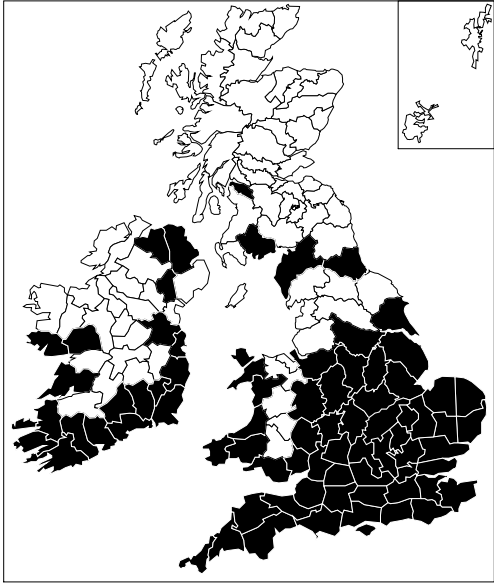
*First report.* D&S1865 as *Nabis apterus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sandhills (n), quarry, river bank, salt marsh, path (n), overgrown allotments (n), roadside, grassland, sea banks, gravel/ash/rubble tip, marsh (n), hillside (n), fence posts, cliffs, hedgerows, sand-pit (n), old strawstack, chalk pit (n), marshy ground near a stream, arable land, garden, old *Brassica* seedbed overgrown with weeds, cinder-covered ground, gravel pit (n), motorway verges, rubbish dump (n), embankments, and orchard; specifically from willow trees (n), nettles, grasses (n), heather, *Matricaria*, *Rumex*, litter, black medick, *Pteridium*, *Chamaecyparis lawsoniana*, birch, broom, and *Trifolium arvense* (n). It has been taken sweeping (n), beating, under/at the roots of plants, grubbing (n), in a light trap, inside dehisced cupule on low branch of beech tree, on ground in open oak-birch wood, running with and in the nests of ants (n), and tapping the overhanging thatch of a compost heap. Nymph seen sucking a female *Plagiognathus arbustorum*, and feeding on root-feeding Aphidae. Seen feeding on a second instar nymph of *Pentatoma rufipes*, and with a lacewing larva as prey. Taken for food by the ant *Lasius niger*.



	1-5	6-10	11-15	16-20	21-25	26-
January				1		
February						
March				1		1
April			1	1		1
May	2	1	3 N	1	1	2 N
June		2	1	2 N	6 N	N
July	7	2 N	3 N	3 N	1 N	3
August	10 N	3 N	9	6 N	8 N	5 N
September	6 N	9 N	9	6 N	11	2
October	7	4	4	1	1	1
November	1	1				
December		1				



***Nabis brevis* Scholtz (Nabidae)**

*Common name.* The Marsh Damselbug.

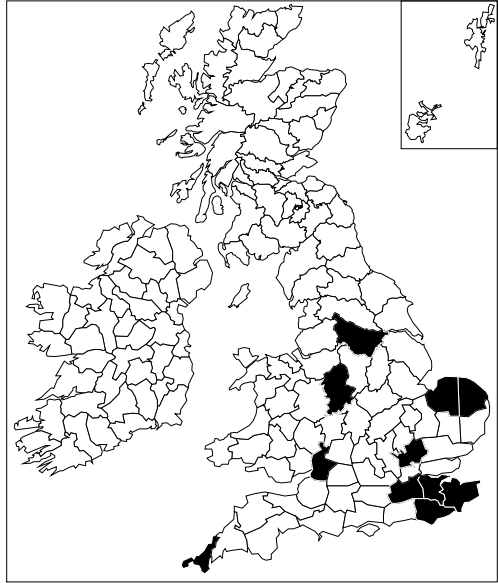
*First report.* EMM36:227-228 as *Nabis brevis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sweeping and searching at roots on marshy, heathy ground.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						
August					1	1
September				1	1	1
October						
November						
December						

No habitus images are available.

***Nabis capsiformis* Germar (Nabidae)**

*Common name.* The Cornish Damselbug.

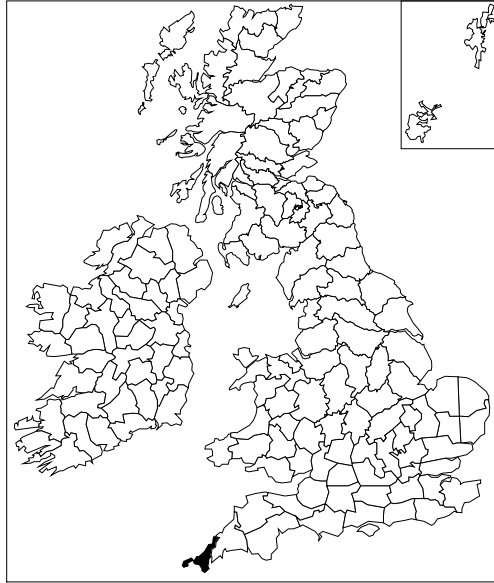
*First report.* HN22:3 and Atropos56:23-25 as *Nabis capsiformis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported at light.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November					1	
December						

No habitus images are available.

***Nabis ericetorum* Scholtz (Nabidae)**

*Common name.* The Heath Damselbug.

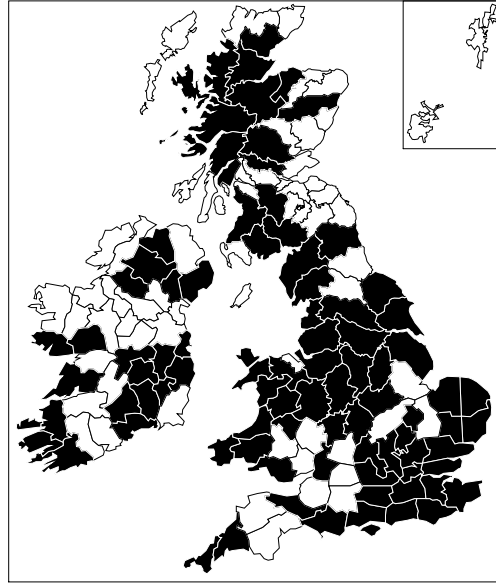
*First report.* D&S1865 as *Nabis dorsalis* (Hem6:240).

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from salt marsh, heaths (w), moors, cliffs, margin of a pond, sea banks, shore, river banks, bog, orchard, and sand pit; specifically from heather, heath, birch, pines, grass hummocks (w), and marrow. It has been taken sweeping (n), beating, and under/at roots of plants. Seen feeding on thrips in the inflorescences of *Matricaria inodora*.



	1-5	6-10	11-15	16-20	21-25	26-
January						1
February				1		
March			1		1	
April	1				1	
May		1		2	3	3
June		1	1	3	1	2
July		5	2	3	2	1
August	4	2		5	3	1
September	7	7	5 N	11	3	2
October	2	1	3	2		
November	3					1
December						



***Nabis ferus* (Linnaeus) (Nabidae)**

*Common name.* The Field Damselbug.

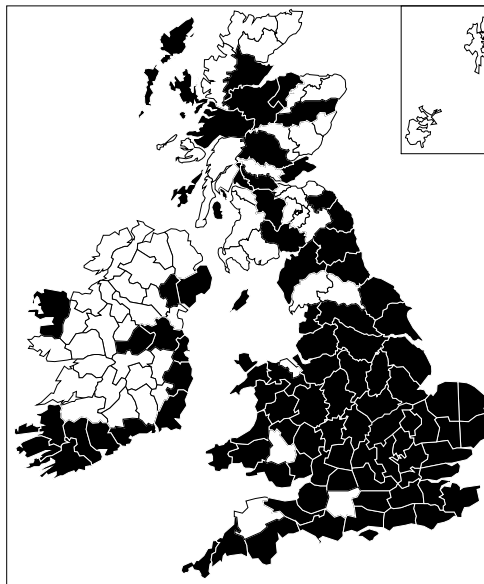
*First report.* D&S1865 as *Nabis ferus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sand dunes, meadows, river bank, compost heap, garden (w), sand pit, sea cliff, heaths (w), haymeadow, chalk pit, cutting, grassy areas, mossy outcrop, demolition site, old *Brassica* seedbed overgrown with weeds, arable land, naturally vegetated derelict land, round a lake, and woods; specifically from *Ononis*, litter (w), *Calluna*, *Erica*, grass roots (w) and hummocks, cultivated raspberries, and *Deschampsia*. It has been taken sweeping, beating, suction sampling, under/at roots of plants, in a light trap, in a suction trap, aerial netting at 50 ft over a grass sports field, amongst tidal debris on a beach, in gizzard of Great Tit, and on flowers of Michaelmas daisy. Copulated in culture with female *N. rugosus*.



	1-5	6-10	11-15	16-20	21-25	26-
January			1	1	1	
February	1					2
March		1			1	4
April	1	1	1		1	
May			2		2	3
June		1				2
July	3		3	2	2	1
August		2	7	3	2	5
September	3	5	8	6	13	5
October	2		3	2	2	1
November				2	1	
December						



***Nabis flavomarginatus* Scholtz (Nabidae)**

*Common name.* The Broad Damselbug.

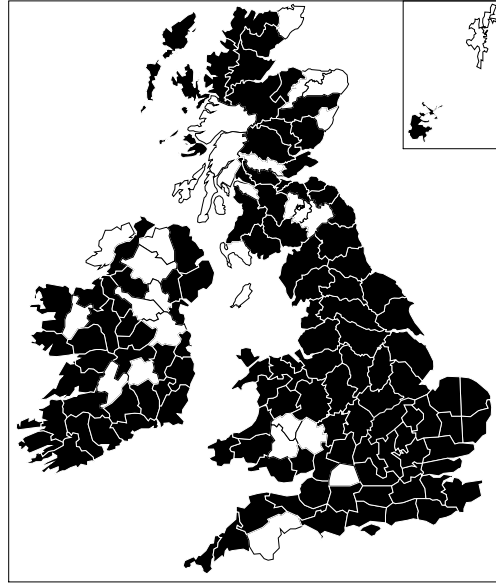
*First report.* EMM4:93-100 as *Nabis flavomarginatus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from gravel pit, chalk-pit, swamp, meadow, hayfield, salt marshes, sandhills, heathland, grassland, naturally vegetated derelict land, pasture, margins of a bog, cinder path near railway, and around cultivated areas; specifically from heather, amongst and at the roots of rushes, *Dactylus glomerata*, nettles, and under cut grass. It has been taken sweeping, and in pitfall traps. Seen to feed on the leafhopper *Conomelus anceps*.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May			1	N	N	N
June			N			2 N
July	3	3	6	7	10	6
August	2	4	5	2	3	3
September	3	5	1	3	2	1
October	1					
November						
December						



***Nabis limbatus* Dahlbom (Nabidae)**

*Common name.* The Meadow Damselbug.

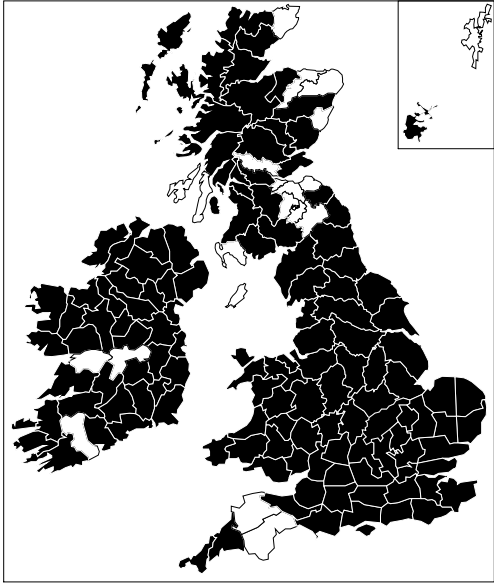
*First report.* D&S1865 as *Nabis limbatus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from salt marsh, swamp, hedgerow, grassland (n), heathland, by stream, deep-pit poultry house, ride verge, edge of a wood, ground flora in pine woods, naturally vegetated derelict land, bog, and sheep-grazed upland pasture; specifically from grass (n), *Juncus* (n), and *Potentilla* amongst *Ulex*. It has been taken sweeping, beating, at 1550 ft altitude, in a suction trap, in gizzard of Great Tit, and suction sampling. Seen feeding on the leafhopper *Conomelus anceps* (n) and the mirid *Monalocoris filicis*; attacking a crane-fly (*Tipula paludosa*) in the grass of a hedge; sucking the fly *Opomyza germinationis*; and on inflorescences of *Angelica sylvestris* predating the Ichneumonid *Lissonota coracinus*. Egg found in a grass stem on rough grassland, from which a female of *Polynema gracile* (Mymaridae) emerged (w).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March				1		
April						
May			N			
June			1 N		N	3 N
July	2 N	1 N	6 N	10 N	12 N	6 N
August	6 N	8	10	7 N	9 N	5
September	4 N	6	10	6	6	1
October	5	3	1	1	1	
November						
December						



*Nabis lineatus* Dahlbom (Nabidae)

*Common name.* The Reed Damselbug.

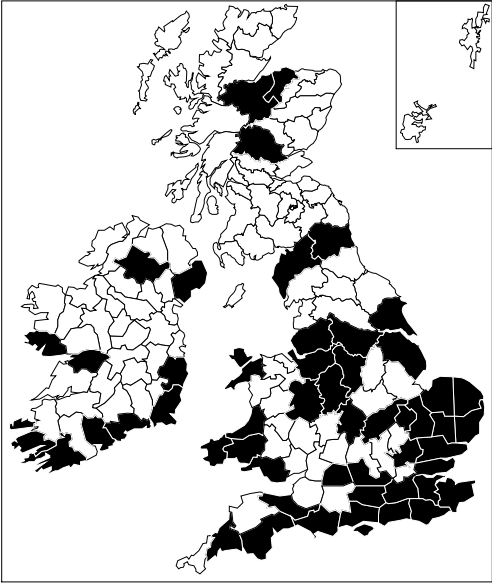
*First report.* EMM12:249-250 as *Nabis Poweri*.

*Ambiguities.* None reported.

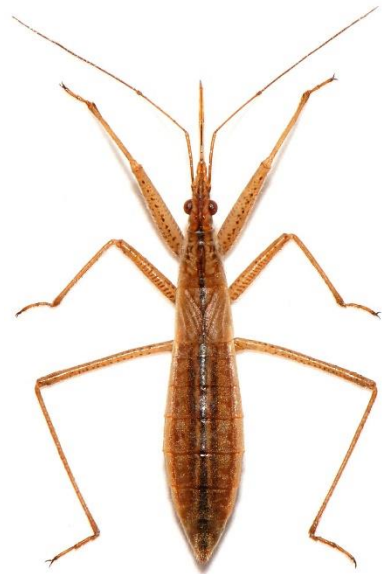
*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from salt marsh (n), boggy heath, sandhills, marshy field covered with tall grass and rushes, cattle-grazed wet valley with *Molinia* tussocks, and river bank; specifically from rushes (n), sedges, dry litter on a low bank fringing a saltmarsh, and dead heads of *Rumex*. It has been taken sweeping, under and at the roots of plants. Preys upon the leafhopper *Euscelis obsoletus* on *Spartina anglica* growing in marsh. Infected with the fungus *Hirsutella citriformis*.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July			2	2 N		
August	1		1 N	1	4	4
September		4	1	1		1
October						
November						
December						



***Nabis pseudoferus* Remane (Nabidae)**

*Common name.* The Confused Damselbug.

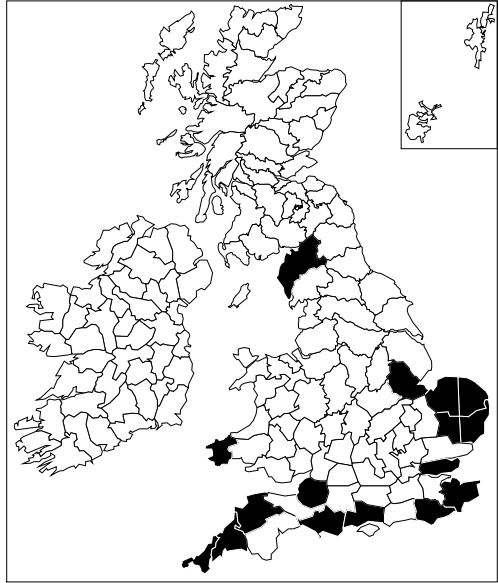
*First report.* EMM92:282-283 as *Nabis pseudoferus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sand dunes, heathy sites, grassland, and margin of a wood. It has been taken sweeping long grass, and at the roots of grass.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April				1		
May						
June						
July	1				2	
August	1				1	1
September	1	1	1	2		
October						
November						
December						

No habitus images are available.

***Nabis rugosus* (Linnaeus) (Nabidae)**

*Common name.* The Common Damselbug.

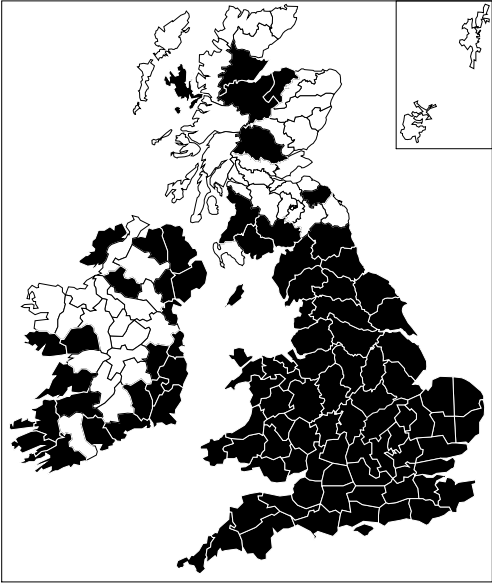
*First report.* EMM12:154-155 as *Nabis rugosus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from round a lake, sandhills, haymeadow, grassland (n), blackcurrent plantation (n), old *Brassica* seedbed overgrown with weeds, naturally vegetated derelict land, marsh, moist meadowland bordering a canal, and wasteland; specifically from moss (w), *Euphorbia*, broom, *Calluna*, clover, grass (w, n), birch, *Dactylus glomerata* (n), and vegetation on a scarp. It has been taken sweeping (n), suction sampling, in a light trap, under/at roots of plants (w), in rotting stake in garden, and in gizzard of Great Tit. Seen catching visitors on flowers of *Alliaria*; and preying upon the click beetle *Agriotes acuminatus* on the tip of a grass stalk, with the bug's rostrum inserted between the pronotum and the base of the right elytron. Copulated in culture with male *N. ferus*.



	1-5	6-10	11-15	16-20	21-25	26-
January	1				1	1
February						
March			2			
April	1		3	3	5	
May	3	2	7 N	5	11	9 N
June	4	7	4	5	8 N	2
July	5 N	2	2 N	2 N	N	3
August	1 N	3	2	6	7 N	8
September	4	3 N	6	6	8	8
October	5	6	2	2	2	
November	1					
December						



***Prostemma guttula* (Fabricius) (Nabidae)**

*Common name.* The Splendid Damselbug.

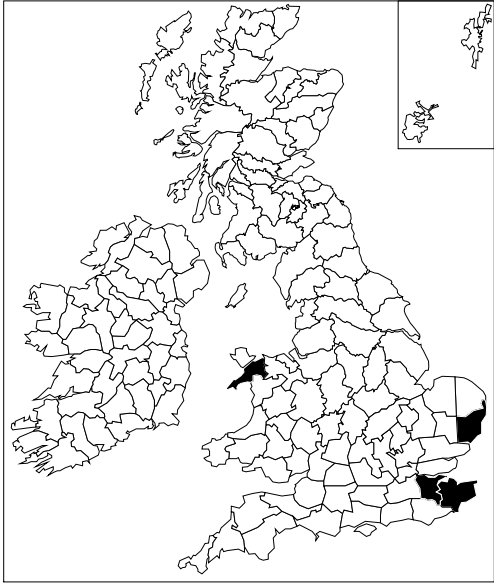
*First report.* D&S1865 as *Metastemma guttula*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sandhills.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

No habitus images are available.

## A REVIEW OF THE PUBLISHED RECORDS FOR THE HEMIPTERA-HETEROPTERA OF THE BRITISH ISLES: (19) THE FAMILY ANTHOCORIDAE

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### Introduction

This is the nineteenth part of the review of the records of Hemiptera-Heteroptera in the British Isles published in the specialist entomological literature, which covers the Anthocoridae, up to the end of 2019. The scope, objectives and method of this work are set out in the Introduction (first part) of the review (Hem7:1-5). The vice-county records for the bugs have already been presented elsewhere in this journal, and are summarised in the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The remaining results of the review are given below, which are limited to records explicitly stated as being from the British Isles. These results comprise a list of all the heximonth records, that is records dated with sufficient precision to be assigned to a specific heximonth (Hem5:52-68); and a list of all the detailed records, that is, records that are not limited to date and location and refer to other aspects of the species' natural history. Duplicate records, the same record published in different articles, are excluded, with only the original record included. There is also a complete bibliography of all the references consulted in this part of the review. These are grouped by the names used in the literature, and thereby provide a synonymy for each species, for those sources listed in the Introduction. There is no reference list, instead references are cited in-line using the method of abbreviation described in the Introduction. Records which refer to ambiguous species names (Hem2:4-8, Hem3:15-17, Hem5:14-15 & Hem5:114-118) are listed separately, under a heading marked 'AMBIGUOUS'. The article is concluded with a tabulated summary of the results of the review, which excludes ambiguous records.

What is not stated in this review (the 'gaps') is arguably just as important as what is stated, which hopefully will provide an impetus to future research on the Hemiptera-Heteroptera in these islands. Consequently, I would be grateful to hear from any reader who has information which is new to that collected in this review, and who would be willing to publish it.

### Heximonth records

#### *Acompocoris alpinus* Reuter (Anthocoridae)

- 05F: 26 May 1917 [Royston, Hertfordshire. LondonHets]
- 06E: 25 June 2000 [Linwood Warren, VC54. Hem3:86]
- 06F: 28 June 1980 [University of East Anglia Grounds, Norwich, VC27. Hem4:41]
- 07B: 9 July 2015 [Hunstanton Park, VC28. Hem4:38] 10 July 2011 [Witley Common, Surrey. Hem6:244]
- 07C: 13 July 1942 [Marley, Sussex. EMM82:199-200]
- 07E: 21 July 1944 [Marley, Sussex. EMM82:199-200] 22 July 1949 [Ockham, Surrey. LondonHets] 23 July 2015 [TL46, VC29. Hem3:96]
- 08A: 2 August 1904 [Barnby Broad, Suffolk. SuffolkHets]
- 08B: 8 August 1960 [Haynes, Bedfordshire. EMM97:32-33] 9 August 1955 [Near Beaconsfield, Buckinghamshire. EMM92:47-48]
- 08C: 13 August 1960 [Woburn Sands, Bedfordshire. EMM97:32-33]
- 08F: 26 August 1943 [Albury, Surrey. Male. LondonHets]
- 09E: 23 September 1951 [Amersham, Buckinghamshire. EMM90:250]

#### *Acompocoris pygmaeus* (Fallén) (Anthocoridae)

- 05B: 6 May 2008 [Hencott Pool, VC40. Hem3:96]
- 06B: 9 June 1917 [Boxhill, Surrey. LondonHets]
- 06F: 26 June 1912 [Burnham Beeches, Buckinghamshire. LondonHets]

- 07A: 2 July 1895 [Adare, Limerick. IrelandHets] 5 July 1953 [Amersham, Buckinghamshire. LondonHets] 2 July 1950 [Brockenhurst, New Forest. PTSLENHS1950-51:71-72] 5 July 1954 [Harpenden, Hertfordshire. LondonHets] 5 July 1925 [Maynooth, Kildare. IrelandHets] 3 July 1939 [Woking, Surrey. LondonHets]
- 07B: 8 July 1950 [Byfleet, Surrey. PTSLENHS1950-51:72-73] 9 July 2016 [May's Bounty, Basingstoke, VC12. Hem6:230] 7 July 1922 [Westerham, Kent. LondonHets]
- 07C: 13 July 1912 [Shirley, Surrey. LondonHets]
- 07D: 20 July 1960 [Cranborne, Dorset. EMM96:152] 17 July 1932 [Dromahair, Co Leitrim. IrelandHets] 19 July 1964 [Hatfield, Hertfordshire. LondonHets]
- 07E: 22 July 1961 [Knowle Park, Sevenoaks, Kent. LondonHets]
- 07F: 28 July 1925 [Wexford district, Co Wexford. IrelandHets]
- 08A: 1 August 1960 [Galley Wood, near Chelmsford, Hertfordshire. LondonHets] 5 August 1960 [Hampstead Heath, Middlesex. LondonHets] 4 August 1960 [Sharpenhoe Clappers, Bedfordshire. EMM97:32-33] 3 August 1919 [Weybridge, Surrey. LondonHets]
- 08B: 8 August 1943 [Hampstead, Middlesex. LondonHets] 8 August 1960 [Haynes, Bedfordshire. EMM97:32-33] 8 August 1960 [Millbrook, Bedfordshire. EMM97:32-33]
- 08C: 13 August 1911 [Boxhill, Surrey. Males and females. LondonHets] 12 August 1949 [Byfleet, Surrey. LondonHets] 15 August 1939 [Byfleet, Surrey. LondonHets] 11 August 1986 [Markway Enclosure, near Lyndhurst, New Forest. Adults and nymphs. EMM130:77-79]
- 08D: 20 August 1952 [Black Hills, Esher Common, Surrey. LondonHets]
- 08E: 25 August 1964 [Shoreham, Kent. LondonHets]
- 08F: 30 August 1936 [Blackheath and Farley Heath, Surrey. PTSLENHS1936-37:35-36] 27 August 1947 [Cardington, near Bedford. PRES(L)24:128-130] 26 August 1927 [Kilruddery, Co Wicklow. IrelandHets] 31 August 1931 [Macmine, Co Wexford. IrelandHets] 30 August 1927 [Murragh, Co Wicklow. IrelandHets]
- 09A: 2 September 1930 [Esher Common, Surrey. LondonHets] 3 September 1930 [Mullingar, Co Westmeath. IrelandHets] 2 September 1950 [Oxshott, Surrey. PTSLENHS1950-51:78-79] 1 September 1961 [Shoreham, Kent. LondonHets]
- 09B: 7 September 1994 [University of East Anglia, Norwich, VC27. Hem4:41]
- 09C: 15 September 1931 [Enniskerry, Co Wicklow. IrelandHets] 12 September 1954 [Fawkham, Kent. LondonHets] 13 September 1951 [Oxshott Heath, Surrey. LondonHets] 14 September 1895 [Oxshott Heath, Surrey. LondonHets]
- 09D: 18 September 1931 [Loughlinstown, Co Dublin. IrelandHets] 17 September 1951 [Oxshott Heath, Surrey. LondonHets] 20 September 1894 [Oxshott Heath, Surrey. LondonHets]
- 09F: 28 September 1892 [Oxshott Heath, Surrey. LondonHets]
- 10A: 2 October 1955 [Boxhill, Surrey. LondonHets] 2 October 1951 [Oxshott Heath, Surrey. LondonHets]
- 10B: 8 October 1950 [Amersham, Buckinghamshire. LondonHets]
- 10E: 22 October 1950 [Amersham, Buckinghamshire. LondonHets]

*Amphiareus constrictus* (Stål) (Anthocoridae)

- 09F: 30 September 1955 [Blackheath, London. S&L1959]

*Anthocoris amplipollis* Horváth (Anthocoridae)

- 06C: 15 June 1980 [Ashberry, near Helmsley, North Yorkshire. EMM118:111-112]
- 07B: 9 July 1978 [Ashberry, near Helmsley, North Yorkshire. EMM118:111-112]
- 07E: 25 July 2009 [Along a footpath to Long Meadow, Wootton, Oxfordshire. Hem4:48]
- 08B: 9 August 1980 [Ashberry, near Helmsley, North Yorkshire. EMM118:111-112]
- 08D: 19 August 2014 [Brandon, VC26. Hem3:96]
- 08E: 25 August 1979 [Lowna, near Kirkbymoorside, North Yorkshire. EMM118:111-112] 23 August 1980 [Riccaldale, near Helmsley, North Yorkshire. EMM118:111-112]
- 09B: 7 September 2009 [Wychwood Forest, VC23. Female. HN15:10]
- 09E: 21 September 1995 [Riddlesdown, Surrey. BJENH16:186]

*Anthocoris butleri* Le Quesne (Anthocoridae)

- 04A: 2 April 1987 [Broadway, Worcestershire. EMM129:60]  
 04B: 10 April 2013 [Rothamsted, Hertfordshire. Hem5:212]  
 05F: 27 May 1916 [Boxhill, Surrey. LondonHets]  
 06B: 9 June 1917 [Boxhill, Surrey. LondonHets]  
 06D: 16 June 1917 [Boxhill, Surrey. LondonHets]  
 07D: 20 July 1958 [Boxhill, Surrey. LondonHets]  
 07F: 31 July 1973 [Boxwell Wood, Gloucestershire. GloucsHets]  
 08E: 23 August 1958 [Boxhill, Surrey. LondonHets]  
 08F: 27 August [Snowhill, VC33. HN15:13]  
 09C: 12 September 1953 [Boxhill, Surrey. LondonHets] 15 September 1917 [Boxhill, Surrey. LondonHets]  
 09D: 18 September 1957 [Blackheath, Kent. LondonHets] 19 September 1994 [Box Hill, Surrey. EMM133:79-80]  
 09F: 27 September 1959 [Boxhill, Surrey. LondonHets]  
 10A: 5 October 2009 [Wood Bevington/Cock Bevington, VC38. Hem3:96]  
 11D: 20 November 2014 [Hunstanton Park, VC28. Hem3:96]

*Anthocoris confusus* Reuter (Anthocoridae)

- 01B: 10 January 1892 [Mickleham, Surrey. LondonHets]  
 02C: 11 February 1961 [Shoreham, Kent. LondonHets] 11 February 1905 [Wimbledon Common, Surrey. Female. LondonHets]  
 02F: 28 February 1959 [Eynsford, Kent. LondonHets]  
 03A: 4 March 1978 [Dagnam Park, Essex. LondonHets]  
 03B: 8 March 1953 [Hyde Heath, Buckinghamshire. LondonHets]  
 03C: 14 March 1943 [St Albans, Hertfordshire. LondonHets]  
 03D: 17 March 1985 [Dorvel Wood, Gloucestershire. GloucsHets] 19 March 1905 [Richmond Park, Surrey. Female. LondonHets]  
 03E: 25 March 1922 [Westerham, Kent. LondonHets]  
 04A: 5 April 1952 [Banstead Downs, Surrey. PTSLENHS1952-53:73]  
 04B: 7 April [Drymen, Stirlingshire. Adults. TSBE16:245-256] 10 April 1933 [Ranmore Common, Surrey. LondonHets]  
 04C: 13 April [Drymen, Stirlingshire. Adults. TSBE16:245-256] 11 April 1936 [Effingham, Surrey. LondonHets]  
 04D: 20 April [Drymen, Stirlingshire. Adults. TSBE16:245-256] 18 April 1937 [Wilstone Reservoir, near Tring, Hertfordshire. Female. LondonHets]  
 04E: 24 April 1917 [Byfleet, Surrey. LondonHets] 25 April [Drymen, Stirlingshire. Adults. TSBE16:245-256]  
 04F: 29 April 1981 [Clahar Bridge, Cornwall. CornwallHets] 26 April [Drymen, Stirlingshire. Adults. TSBE16:245-256] 29 April 1933 [Oxshott, Surrey. LondonHets]  
 05A: 1 May 1960 [Chipstead, Surrey. LondonHets] 1 May 1904 [Horsley, Surrey. LondonHets]  
 05B: 7 May 1961 [Deal, Kent. PTSLENHS1961:75-76] 7 May 1944 [Hilcot, Gloucestershire. GloucsHets] 9 May 2003 [Lanhydrock Park, Cornwall. CornwallHets] 10 May 1903 [West Wickham, Kent. Females. LondonHets]  
 05C: 14 May 1922 [Darenth, Kent. LondonHets] 11 May 1961 [Drymen, Stirlingshire. Nymphs. TSBE18:35-48] 14 May 1961 [Farningham Wood, Kent. LondonHets] 12 May 1951 [Gomshall, Surrey. LondonHets] 14 May 1996 [Trevesa Farm, Cornwall. CornwallHets] 13 May 1905 [Wimbledon Common, Surrey. Female. LondonHets]  
 05D: 19 May 1906 [Coulson, Surrey. Female. LondonHets] 17 May 1953 [Hackbridge, Surrey. LondonHets] 17 May 1990 [Valency Valley, Cornwall. CornwallHets]  
 05E: 22 May 1967 [Botley Hill, Titsey, Surrey. LondonHets] 25 May 1910 [Chingford, Epping Forest, Essex. LondonHets] 22 May [Drymen, Stirlingshire. Adults. TSBE16:245-256] 21 May 1944 [Sapperton, Gloucestershire. GloucsHets] 23 May 1950 [Trawscoed, Cardiganshire. Female. EMM92:54-64]

- 05F: 27 May 1916 [Boxhill, Surrey. LondonHets] 29 May 2011 [Fancott Meadows Nature Reserve, VC30. HN17/18:7] 27 May 1960 [Farningham Wood, Kent. Male. LondonHets] 31 May 1952 [Monk's Wood, Huntingdonshire. EMM88:162] 29 May 1969 [Pilgrim Fort, Caterham, Surrey. LondonHets] 26 May 1917 [Royston, Hertfordshire. LondonHets] 27 May 1912 [Royston, Hertfordshire. LondonHets] 29 May 1933 [Woking, Surrey. LondonHets]
- 06A: 4 June 1904 [Ashted, Surrey. LondonHets] 1 June 1989 [Glendurgan, Cornwall. CornwallHets] 3 June 1967 [Hurt Wood, Surrey. PTSLENHS1967:90-92]
- 06B: 10 June 1955 [Aberystwyth, Cardiganshire. Female. EMM92:54-64] 7 June 1952 [Amersham, Buckinghamshire. LondonHets] 8 June 1950 [Hampstead Heath, Middlesex. LondonHets] 10 June 1916 [Leith Hill, Surrey. LondonHets] 8 June 2000 [Lower Tresmorn, Cornwall. CornwallHets] 7 June 1989 [Penrose, Cornwall. CornwallHets]
- 06C: 11 June 1893 [Oxsted, Surrey. LondonHets]
- 06D: 18 June [Drymen, Stirlingshire. Adults. TSBE16:245-256] 20 June 2001 [Mullion Cove village, Cornwall. CornwallHets]
- 06E: 21 June 1951 [Culbin sand-hills, Moray Firth. EMM87:255] 21 June 1903 [Mickleham, Surrey. Male. LondonHets] 25 June 2015 [Pound Street, VC12. Hem3:54] 25 June 2015 [SU473592, VC12. Hem3:54]
- 06F: 27 June 1989 [Lanhydrock Park, Cornwall. CornwallHets]
- 07A: 4 July 1940 [Boxhill, Surrey. LondonHets] 4 July 2016 [Cowleaze Wood, Chiltern Hills, Oxfordshire. Nymph reared in culture. Hem4:126] 5 July 1965 [Farningham Wood, Kent. LondonHets] 3 July [Moor House Nature Reserve, Penines, Westmoreland. TSBE19:173-235] 3 July 1989 [Newton Cliff, Cornwall. CornwallHets]
- 07B: 8 July 1956 [Bookham Common, Surrey. LondonHets] 7 July 1955 [Harpenden, Hertfordshire. LondonHets] 7 July 2003 [Toddington, VC13. Hem6:231] 7 July 1950 [Trawscoed, Cardiganshire. Female. EMM92:54-64]
- 07C: 13 July 1952 [Little Missenden, Buckinghamshire. LondonHets] 11 July 1952 [Oxshott, Surrey. LondonHets]
- 07D: 19 July 1952 [Chesham, Buckinghamshire. LondonHets] 17 July 2006 [Cotehele Wood, Cornwall. CornwallHets] 18 July 1943 [Hampstead Heath, Middlesex. LondonHets] 19 July 1952 [Latimer, Buckinghamshire. LondonHets] 20 July 1952 [Latimer, Buckinghamshire. LondonHets] 18 July 1955 [Penparcau, Cardiganshire. Female. EMM92:54-64] 19 July 1958 [Ruislip Marsh, Middlesex. LondonHets] 17 July 2015 [The Chase, Broad Layings, VC12. Hem3:54] 20 July 1933 [Woking, Surrey. LondonHets]
- 07E: 22 July 1957 [Aberfoyle, Perthshire. EMM94:93] 22 July 1955 [Nonsuch Park, Cheam, Surrey. LondonHets] 22 July 1949 [Ockham, Surrey. LondonHets] 24 July 1950 [St John's Wood, Middlesex. LondonHets] 24 July 1892 [Woking, Surrey. LondonHets]
- 07F: 27 July 1922 [Boxhill, Surrey. LondonHets] 27 July 2014 [Caudle Springs Fen, Carbrooke, VC28. Hem4:38] 26 July 1955 [Grounds of the Pest Infestation Laboratory, Slough, Buckinghamshire. EMM92:35] 27 July 1990 [Harmston Lowfields, near Aubourn, VC53. Hem3:86] 29 July 1958 [Ruislip Marsh, Middlesex. LondonHets]
- 08A: 5 August 1960 [Hampstead Heath, Middlesex. LondonHets] 2 August 1950 [Jordans, Buckinghamshire. LondonHets] 3 August 1967 [Torrinch, Dumbartonshire. EMM114:21-24] 3 August 1922 [Wimbledon Common, Surrey. LondonHets]
- 08B: 9 August 1966 [Bookham Common, Surrey. LondonHets] 7 August 1937 [Boxhill, Surrey. Males. LondonHets] 10 August 1976 [Darenth Wood, Kent. LondonHets] 9 August 1984 [Darland's Lake NR, Totteridge, Hertfordshire. LondonHets] 10 August 1961 [Drymen, Stirlingshire. Nymphs. TSBE18:35-48] 6 August 1962 [Drymen, Stirlingshire. Adults. TSBE18:35-48] 8 August 1963 [Drymen, Stirlingshire. Adults. TSBE18:35-48] 8 August 1964 [Dungeness, Kent. PTSLENHS1964:36] 8 August 1967 [Ring Wood East, Dumbartonshire. EMM114:21-24]
- 08C: 11 August 1955 [Beddington Sewage Farm, Surrey. Adult and nymph. LondonHets] 15 August 1896 [Plumstead, Kent. LondonHets] 15 August 1993 [Sedbury, Gloucestershire. GloucsHets]
- 08D: 19 August 1995 [Coaley Peak, Gloucestershire. GloucsHets] 16 August 1961 [Drymen, Stirlingshire. Adults. TSBE18:35-48] 19 August 1995 [Field Farm, Nympsfield,

- Gloucestershire. GloucsHets] 17 August 1995 [Highgrove House, Gloucestershire. GloucsHets]  
 20 August 1903 [Oxsted, Surrey. Female. LondonHets] 19 August 2002 [Penpoll Creek,  
 Cornwall. CornwallHets] 20 August 1989 [Sandhurst NR, Gloucestershire. GloucsHets]  
 08E: 23 August 1955 [Banstead Downs, Surrey. Female. LondonHets] 25 August 2016 [Hampton,  
 Herne Bay, Kent. Adult. BJENH30:78] 25 August 1954 [Harpenden, Hertfordshire.  
 LondonHets] 23 August 2005 [South Penquite Farm, Cornwall. CornwallHets]  
 08F: 31 August 1993 [Smiths Covert, Barnsley, Gloucestershire. GloucsHets] 29 August 1982  
 [The Moors NR, VC11. Hem3:106]  
 09A: 4 September 1965 [Bookham Common, Surrey. LondonHets] 3 September 1966  
 [Inchcailloch, Stirlingshire. EMM114:21-24] 1 September 1961 [Shoreham, Kent. LondonHets]  
 09B: 7 September 1954 [Harpenden, Hertfordshire. LondonHets]  
 09C: 14 September 1952 [Amersham, Buckinghamshire. LondonHets]  
 09D: 17 September 1951 [Esher, Surrey. LondonHets] 20 September 1894 [Plumstead, Kent.  
 LondonHets]  
 09E: 24 September 1892 [Boxhill, Surrey. LondonHets] 21 September 1980 [Erisey Barton,  
 Cornwall. CornwallHets]  
 10A: 2 October 1949 [Boxhill, Surrey. LondonHets] 1 October 1962 [Drymen, Stirlingshire.  
 Adults. TSBE18:35-48] 1 October 1958 [Ruislip Marsh, Middlesex. LondonHets] 2 October  
 1954 [Tregaron Bog, Cardiganshire. Males and females. EMM92:54-64]  
 10B: 6 October 1991 [Crickley Hill, Gloucestershire. GloucsHets] 10 October 1975 [Dagnam  
 Park, Essex. LondonHets] 6 October 1961 [Drymen, Stirlingshire. Nymphs. TSBE18:35-48] 7  
 October 1962 [Epping Forest, Essex. LondonHets]  
 10D: 18 October 1903 [Richmond Park, Surrey. Female. LondonHets]  
 10E: 21 October 1962 [Coombe Hill, Buckinghamshire. LondonHets]  
 10F: 26 October 1990 [Stinchcombe Hill, Gloucestershire. GloucsHets]  
 11A: 4 November 1984 [Oakridge Lynch, Gloucestershire. GloucsHets]  
 11B: 7 November 1959 [Tilburstow Hill, Godstone, Surrey. LondonHets]  
 11C: 11 November 1951 [Amersham, Buckinghamshire. LondonHets]  
 12A: 1 December 1920 [Knockholt, Kent. LondonHets]

*Anthocoris gallarumulmi* (De Geer) (Anthocoridae)

- 04A: 5 April 1952 [Banstead Downs, Surrey. PTSLENHS1952-53:73]  
 04D: 16 April 1952 [NW8 (= St John's Wood), Middlesex. Adults. LondonHets]  
 04F: 27 April 1952 [NW8 (= St John's Wood), Middlesex. LondonHets] 26 April 1909 [Palmers  
 Green, Middlesex. LondonHets]  
 05B: 10 May 1952 [Farnham, Surrey. LondonHets]  
 05C: 14 May 1910 [Royston, Hertfordshire. LondonHets]  
 05E: 21 May 1960 [Clandon, Surrey. LondonHets]  
 05F: 27 May 1916 [Boxhill, Surrey. LondonHets] 27 May 1912 [Royston, Hertfordshire.  
 LondonHets]  
 06A: 5 June 1944 [Dunstable, Bedfordshire. EMM81:183-185] 3 June 1925 [South cliffs, Howth,  
 Co Dublin. IrelandHets]  
 06B: 10 June 1952 [NW8 (= St John's Wood), Middlesex. Nymphs. LondonHets]  
 06F: 27 June 1952 [NW8 (= St John's Wood), Middlesex. LondonHets] 29 June 1960 [NW8 (= St  
 John's Wood), Middlesex. LondonHets]  
 07A: 2 July 1952 [NW8 (= St John's Wood), Middlesex. LondonHets]  
 07B: 8 July 1950 [Byfleet, Surrey. LondonHets]  
 07C: 15 July 1956 [NW8 (= St John's Wood), Middlesex. LondonHets]  
 07D: 18 July 1896 [Kidbrooke Lane, Kent. LondonHets] 16 July 1989 [Lancut Reserve,  
 Gloucestershire. GloucsHets]  
 07E: 25 July 1896 [Kidbrooke Lane, Kent. LondonHets] 24 July 1987 [Near Beccles, VC27.  
 Hem4:41]  
 07F: 31 July 1909 [Darenth Wood, Kent. LondonHets] 26 July 1933 [Glenageary, Co Dublin.  
 IrelandHets] 26 July 1955 [Grounds of the Pest Infestation Laboratory, Slough,

Buckinghamshire. EMM92:35] 31 July 1960 [NW8 (= St John's Wood), Middlesex. LondonHets]

- 08C: 11 August 1934 [Boxhill, Surrey. Male. LondonHets] 13 August 1911 [Boxhill, Surrey. Male and female. LondonHets] 14 August 1939 [Boxhill, Surrey. Male and female. LondonHets] 15 August 1896 [Plumstead, Kent. LondonHets]  
 08D: 19 August 1916 [Chenies, Buckinghamshire. LondonHets] 19 August 1933 [Glenageary, Co Dublin. IrelandHets]  
 08E: 21 August 1916 [Northwood, Middlesex. LondonHets]  
 08F: 26 August 1954 [Little Chalfont, Buckinghamshire. LondonHets]  
 09A: 5 September 1909 [Boxhill, Surrey. Male and females. LondonHets] 5 September 1964 [Chesham, Buckinghamshire. LondonHets]  
 09B: 8 September 1911 [Cheshunt, Hertfordshire. LondonHets]  
 09C: 14 September 1952 [Amersham, Buckinghamshire. LondonHets]  
 09E: 25 September 1910 [Boxhill, Surrey. Male and females. LondonHets] 22 September 1946 [Stevington Wood, Bedfordshire. EMM86:6-8]  
 10B: 10 October 1965 [Banstead, Surrey. PTSLENHS1966:34]  
 10E: 23 October 1944 [Tilsworth, Bedfordshire. EMM81:183-185]  
 12F: 26 December 1954 [Fawkham, Kent. LondonHets]

*Anthocoris limbatus* Fieber (Anthocoridae)

- 04F: 27 April 1934 [Rye Water, Kildare. IrelandHets]  
 07D: 19 July 1952 [Chesham, Buckinghamshire. LondonHets] 19 July 1986 [Lower Test Nature Reserve, near Southampton, Hampshire. PTBENHS20:67]  
 08C: 12 August 2011 [Meriden Sand & Gravel Quarry, VC38. Hem3:96]  
 08D: 17 August 2015 [Wilstone Reservoir, Hertfordshire. Adult. Hem3:124]  
 08F: 26 August 1958 [Dungeness, Kent. EMM95:96] 30 August 1937 [Harpenden, Hertfordshire. LondonHets] 26 August 1925 [Kenmare Demesne, Killarney, North Kerry. IrelandHets]  
 09A: 5 September 1937 [Harpenden, Hertfordshire. LondonHets] 1 September 1961 [Shoreham, Kent. LondonHets]  
 09B: 8 September 1931 [Near Drogheda, Boyne Valley, Co Meath. IrelandHets]  
 09D: 18 September 1980 [Clahar Bridge, Cornwall. CornwallHets] 19 September 2009 [Humberston Blowell, VC54. Hem3:86]  
 09E: 22 September 1937 [Harpenden, Hertfordshire. LondonHets] 23 September 1979 [Near Tadcaster, Yorkshire. HSGN3:10]  
 09F: 27 September 1937 [Harpenden, Hertfordshire. Males and females. LondonHets]  
 10B: 8 October 2015 [Blackborough End Gravel Pits Fishing Lakes, VC28. Hem3:96]

*Anthocoris minki* Dohrn (Anthocoridae)

- 06A: 2 June 2018 [Teynham, VC15. Adult. Hem6:222]  
 07A: 5 July 1998 [Morden Cemetery, London. ERJV112:185-186] 2 July 2018 [Odiham Common, VC12. Females. Hem6:222]  
 07B: 10 July 2018 [Green Park, London, VC21. Adults. Hem6:222]  
 08A: 5 August 2006 [Near Cockayne Hatley Wood, Cambridgeshire. HN9:14]  
 09C: 15 September 2006 [Three Locks, Buckinghamshire. HN9:14]  
 09D: 19 September 2006 [Stewartby, VC30. Males, females and nymph. HN9:14]  
 09E: 22 September 2003 [Wandsworth Common, Surrey. Nymphs. BJENH17:181-182]  
 09F: 30 September 1999 [Forster memorial Park, Catford, SE London. BJENH14:185-194] 28 September 1984 [Kew, Surrey. PTBENHS18:20] 29 September 2014 [Near Long Wittenham, VC22. Hem3:111] 29 September 2014 [Steventon, VC22. Adult and nymphs. Hem3:111] 29 September 2014 [Sutton Courtney, VC22. Adults and nymphs. Hem3:111] 26 September 2014 [University Parks, Oxford, VC23. Adults and nymphs reared in culture. Hem3:111]

*Anthocoris nemoralis* (Fabricius) (Anthocoridae)

- 01A: 3 January 1965 [Ruxley Gravel Pit, Kent. LondonHets]  
 02F: 29 February 1961 [Ruxley Gravel Pit, Kent. LondonHets]

- 03B: 10 March 1945 [Limpsfield, Surrey. LondonHets]  
 03C: 13 March 1943 [Northwood, Middlesex. LondonHets]  
 03D: 17 March 1903 [Wimbledon Common, Surrey. LondonHets]  
 03E: 24 March 1893 [Plumstead, Kent. LondonHets]  
 04A: 2 April 1949 [Effingham, Surrey. PTSLENHS1949-50:70-71]  
 04B: 7 April 1934 [Effingham, Surrey. PTSLENHS1934-35:7-8]  
 04C: 13 April 1946 [Boddington, Gloucestershire. GloucsHets] 11 April 1936 [Effingham, Surrey. LondonHets]  
 04D: 18 April 1976 [Dagnam Park, Essex. LondonHets] 18 April 1931 [Effingham, Surrey. PSLENHS1931-32:55] 16 April 1938 [Horsell Common, Surrey. LondonHets] 16 April 2014 [Hugglescote coal waste site, VC55. Hem3:96]  
 04E: 22 April 1978 [Dagnam Park, Essex. LondonHets]  
 04F: 30 April 1976 [Dagnam Park, Essex. LondonHets] 30 April 1951 [Esher Common, Surrey. LondonHets]  
 05A: 4 May 1952 [Bookham Common, Surrey. LondonHets]  
 05B: 6 May 1961 [Coulsdon, Surrey. LondonHets] 10 May 2001 [Gosport, VC11. Hem3:106] 10 May 1966 [Grounds of Royal Botanic Gardens, Kew, Surrey. LondonHets] 7 May 1944 [Hilcot, Gloucestershire. GloucsHets] 7 May 1933 [Imperial College Biological Field Station, Slough, Buckinghamshire. TSBE2:47-67]  
 05C: 13 May 1952 [Arbrook Common, Surrey. LondonHets] 12 May 1951 [Ashted, Surrey. PTSLENHS1951-52:68-69] 15 May 1993 [Coombe Hill Canal, Gloucestershire. GloucsHets] 11 May 1980 [Mitcham Common, Surrey. LondonHets]  
 05D: 20 May 1944 [Harford Bridge, Gloucestershire. GloucsHets]  
 05E: 22 May 1955 [Aberystwyth, Cardiganshire. Females. EMM92:54-64] 22 May 1955 [Banstead Downs, Surrey. LondonHets]  
 05F: 28 May 1977 [Dagnam Park, Essex. LondonHets] 29 May 1999 [Great Orme, Gwynedd. EMM136:147] 29 May 1964 [Ockham Common, Surrey. LondonHets] 31 May 2014 [South of Weavers Down, VC13. Hem6:231] 31 May 2005 [Southwater Country Park, VC13. Hem6:231]  
 06A: 4 June 1997 [Chase Wood, VC13. Hem6:231]  
 06B: 10 June 2014 [Brandon, VC28. Hem4:38]  
 06C: 12 June 1915 [Abinger, Surrey. LondonHets] 13/14 June 1981 [Blean Woods, Kent. PTBENHS15:31-32] 15 June 1958 [Esher Common, Surrey. LondonHets]  
 06D: 20 June 1989 [Morden Valley, Cotehele, Cornwall. CornwallHets] 19 June 1988 [Pencoose Farm, Stithians, Cornwall. CornwallHets] 16 June 1905 [Ranmore Common, Surrey. LondonHets] 18 June 1905 [Ranmore Common, Surrey. LondonHets] 18 June 1957 [Ruislip NR, Middlesex. LondonHets] 17 June 1951 [Westerham, Kent. PTSLENHS1951-52:72-73]  
 06E: 21 June 1955 [Bookham Common, Surrey. LondonHets] 23 June 1962 [Farningham Wood, Kent. LondonHets] 22 June 1951 [Harefield, Middlesex. LondonHets] 23 June 1980 [Mitcham Common, Surrey. LondonHets]  
 06F: 29 June 1975 [Dartford Heath, Kent. LondonHets] 27 June 1955 [Ruislip NR, Middlesex. LondonHets]  
 07A: 4 July 1970 [Beechen Wood, Lullingstone Park, Kent. LondonHets] 1 July 1949 [Bookham Common, Surrey. LondonHets] 4 July 1940 [Boxhill, Surrey. LondonHets] 3 July 1956 [Bricket Wood Common, Hertfordshire. LondonHets] 2 July 1980 [Chelsea Physic Garden, Middlesex. LondonHets] 5 July 1981 [Clahar Bridge, Cornwall. CornwallHets] 4 July 1944 [Sewell, near Houghton Regis, Bedfordshire. EMM81:183-185] 1 July 1989 [Wheal Busy, Chacewater, Cornwall. CornwallHets]  
 07B: 6 July 1952 [Amersham, Buckinghamshire. LondonHets] 10 July 1955 [Bookham Common, Surrey. LondonHets] 8 July 1940 [Boxhill, Surrey. LondonHets] 9 July 2012 [Bulford Field & Dumbell Copse, VC8. Hem5:189] 7 July 1981 [Colgotham, Cornwall. CornwallHets] 6 July 1952 [Hackbridge, Surrey. LondonHets] 10 July 1933 [Woking, Surrey. LondonHets] 7 July 1957 [Wyre Forest, Shropshire. EMM94:93]  
 07C: 14 July 1990 [Beachley Point, Gloucestershire. GloucsHets] 15 July 1949 [Bookham Common, Surrey. LondonHets] 12 July 1939 [Powys, Montgomeryshire. Male and female.

- EMM92:54-64] 13 July 2006 [Stowe Warren, Cornwall. CornwallHets] 12 July 1952 [West Hyde, Hertfordshire. LondonHets]
- 07D: 18 July 1954 [Amersham, Buckinghamshire. LondonHets] 20 July 1955 [Derwenlas, Montgomeryshire. Male. EMM92:54-64] 19 July 1952 [Latimer, Buckinghamshire. LondonHets] 17 July 1954 [West End Common, Surrey. LondonHets] 19 July 1954 [West End Common, Surrey. LondonHets]
- 07E: 23 July 1980 [Boxhill, Surrey. LondonHets] 25 July 1946 [Boxmoor, Hertfordshire. EMM85:249-253] 22 July 1949 [Ockham Common, Surrey. LondonHets]
- 07F: 31 July 1954 [Burnham Beeches, Buckinghamshire. LondonHets] 31 July 1943 [Finchley, Middlesex. LondonHets] 26 July 1955 [Grounds of the Pest Infestation Laboratory, Slough, Buckinghamshire. EMM92:35] 27 July 1990 [Harmston Lowfields, near Aubourn, VC53. Hem3:86] 31 July 1967 [Long Ashton Research Station, North Somerset. Male and female. Ent101:202-204]
- 08A: 4 August 1981 [Chelsea Physic Garden, Middlesex. PTBENHS16:50-52] 1 August 1954 [Chorley Wood, Hertfordshire. LondonHets] 5 August 1976 [Darenth Wood, Kent. LondonHets]
- 08B: 10 August 1958 [Bookham Common, Surrey. LondonHets] 9 August 1966 [Bookham Common, Surrey. LondonHets] 8 August 1954 [Harefield, Middlesex. LondonHets] 8 August 2019 [North Petherton, VC5. Hem6:263] 8 August 1979 [Trevise, Cornwall. CornwallHets]
- 08C: 11 August 1916 [Chorley Wood, Hertfordshire. LondonHets] 15 August 1993 [Sedbury, Gloucestershire. GloucsHets]
- 08D: 18 August 1976 [Darenth Wood, Kent. LondonHets] 20 August 1989 [Sandhurst NR, Gloucestershire. GloucsHets] 19 August 1985 [Severn Bank, Broad Oak, Newnham, Gloucestershire. GloucsHets]
- 08E: 24 August 1952 [Grounds of Zoological Gardens, Regent's Park, Middlesex. LondonHets] 23 August 1994 [Pennance Point, Cornwall. CornwallHets] 23 August 1964 [Ruislip NR, Middlesex. LondonHets] 24 August 1992 [Sherborne Farm, Gloucestershire. GloucsHets] 25 August 2005 [South Penquite Farm, Blissland, Cornwall. CornwallHets] 25 August 1933 [St Johns, Woking, Surrey. LondonHets]
- 08F: 26 August 1958 [Dungeness, Kent. EMM95:96] 26 August 1951 [Harefield, Middlesex. LondonHets] 27 August 1951 [Hoyle's Mouth, Penally, Pembrokeshire. EMM88:22]
- 09A: 4 September 1993 [Beachley Point, Gloucestershire. GloucsHets] 5 September 1953 [Chesham, Buckinghamshire. LondonHets] 1 September 2004 [Lamorna Cove, Cornwall. CornwallHets]
- 09C: 14 September 1952 [Amersham, Buckinghamshire. LondonHets]
- 09D: 20 September 1952 [Amersham, Buckinghamshire. LondonHets] 18 September 1921 [Bride's Glen, Co Dublin. Dark form. IrelandHets] 18 September 1980 [Clahar Bridge, Cornwall. CornwallHets] 19 September 1951 [Esher Common, Surrey. LondonHets] 18 September 1957 [Llanfared, Radnorshire. EMM94:183] 18 September 1957 [Painscastle, Radnorshire. EMM94:183] 20 September 1920 [Palmer's Green, Middlesex. LondonHets] 18 September 1957 [Stanner Rocks, Radnorshire. EMM94:183]
- 09E: 21 September 1980 [Erisey Barton, Cornwall. CornwallHets] 23 September 1980 [Main Dale, Cornwall. CornwallHets] 23 September 1980 [Mullion, Cornwall. CornwallHets]
- 10A: 2 October 1931 [Oxshott Heath, Surrey. LondonHets]
- 10B: 7 October 1956 [Mickleham Downs, Surrey. LondonHets] 8 October 1943 [Northwood, Middlesex. LondonHets]
- 10C: 15 October 1954 [Oatlands, Weybridge, Surrey. LondonHets]
- 10F: 29 October 1918 [Palmer's Green, Middlesex. LondonHets]
- 11B: 8 November 1932 [Arbrook Common, Surrey. LondonHets]
- 11D: 19 November 1951 [Little Chalfont, Buckinghamshire. LondonHets]

*Anthocoris nemorum* (Linnaeus) (Anthocoridae)

- 01E: 21 January 1961 [Ruxley Gravel Pit, Kent. LondonHets]
- 02A: 4 February 1962 [Foots Cry, Kent. LondonHets] 4 February 1962 [Polhill, Kent. LondonHets]

- 02F: 28 February 1965 [Coombe Hill canal, East Gloucestershire. EMM103:184-186] 27 February 1955 [Darenth Wood, Kent. LondonHets] 28 February 1956 [Fawkham, Kent. LondonHets] 26 February 1961 [Ruxley Gravel Pit, Kent. LondonHets]
- 03D: 16 March 1981 [Dagnam Park, Essex. LondonHets] 17 March 1963 [Ruxley Gravel Pit, Kent. LondonHets]
- 03E: 25 March 1962 [Foots Cry, Kent. LondonHets] 23 March [Scotland. Adult. TRESL109:379-394] 23 March 1959 [Upper Belvedere, Kent. LondonHets]
- 03F: 26 March 1993 [Hailey Wood, Gloucestershire. GloucsHets] 28 March 1964 [Hatfield, Hertfordshire. LondonHets] 26 March [Scotland. Adult. TRESL109:379-394] 26 March 1948 [Walham, Gloucestershire. GloucsHets]
- 04A: 2 April 1938 [Bookham Common, Surrey. LondonHets] 4 April 1906 [Coulsdon, Surrey. Female. LondonHets]
- 04B: 7 April 1934 [Effingham, Surrey. PTSLENHS1934-35:7-8] 6 April 1956 [Farningham Wood, Kent. LondonHets] 10 April 1955 [Much Wenlock, Shropshire. EMM91:237]
- 04C: 12 April 1977 [Dagnam Park, Essex. LondonHets] 13 April 1955 [Oatlands, Weybridge, Surrey. LondonHets] 15 April 1922 [Sevenoaks, Kent. LondonHets]
- 04D: 17 April 1954 [Boxhill, Surrey. LondonHets] 16 April 1977 [Dagnam Park, Essex. LondonHets] 17 April 1943 [Finchley, Middlesex. LondonHets] 16 April [Scotland. Adult. TRESL109:379-394]
- 04E: 23 April 1955 [Cripplegate, Middlesex. LondonHets] 23 April 1921 [Crohamhurst, Surrey. LondonHets] 21 April 1953 [Grounds of the Rothamsted Experimental Station, Harpenden, Hertfordshire. PTSLENHS1953-54:4]
- 04F: 26 April 1962 [Dartford Heath, Kent. LondonHets] 27 April 1962 [Farningham Wood, Kent. LondonHets] 28 April 1928 [King's Somborne, Hampshire. THES4:14-15] 30 April 1954 [Mounts Wood, Swanscombe, Kent. LondonHets] 27 April 1952 [NW8 (= St John's Wood), Middlesex. LondonHets] 29 April 1944 [Walham, Gloucestershire. GloucsHets]
- 05A: 1 May 1904 [Horsley, Surrey. LondonHets] 3 May 1896 [Mickleham, Surrey. LondonHets]
- 05B: 8 May 1915 [Burnham Beeches, Buckinghamshire. LondonHets] 6 May 1961 [Coulsdon, Surrey. LondonHets] 7 May 1961 [Deal, Kent. PTSLENHS1961:75-76] 9 May 1965 [Farningham Woods, Kent. PTSLENHS1965:86-87] 7 May 2004 [Hertfordshire. Female. EcolEnt31:162-171] 8 May 1995 [Highmeadow Woods, Gloucestershire. GloucsHets] 8 May 1934 [Imperial College Biological Field Station, Slough, Buckinghamshire. TSBE2:47-67] 9 May 1970 [Pilgrim Fort, Caterham, Surrey. LondonHets] 6 May [Scotland. Male. TRESL109:379-394] 7 May 1979 [West Humble, Surrey. LondonHets]
- 05C: 12 May 1951 [Ashted, Surrey. PTSLENHS1951-52:68-69] 15 May 1995 [Campden Wood & Weston Park, Gloucestershire. GloucsHets] 11 May 1950 [Cardiganshire. Females. EMM92:54-64] 13 May 1906 [Chipstead, Surrey. Female. LondonHets] 14 May 1922 [Darenth Wood, Kent. LondonHets] 14 May 1961 [Farningham Wood, Kent. LondonHets] 14 May 2004 [Hertfordshire. Female. EcolEnt31:162-171] 14 May 1996 [Trevesa Farm, Cornwall. CornwallHets] 13 May 1905 [Wimbledon Common, Surrey. Female. LondonHets]
- 05D: 18 May 1936 [Ashted, Surrey. LondonHets] 16 May 1989 [Bosigran, Cornwall. CornwallHets] 17 May 1965 [Coulsdon, Surrey. LondonHets] 19 May 1906 [Coulsdon, Surrey. Female. LondonHets] 17 May 1924 [Hale End, London E4, Essex. ERJV37:58-59] 18 May 1944 [Near Houghton Regis, Bedfordshire. EMM81:183-185] 20 May 1962 [Near Penybont, Montgomeryshire. EMM98:207]
- 05E: 25 May 1955 [Aberystwyth, Cardiganshire. Females. EMM92:54-64] 22 May 1955 [Banstead Downs, Surrey. LondonHets] 24 May 1979 [Bosigran, Cornwall. CornwallHets] 22 May 1989 [Boswednack, Cornwall. CornwallHets] 23 May 1950 [Cardiganshire. Females. EMM92:54-64] 24 May 1963 [Coulsdon, Surrey. LondonHets] 25 May 1963 [Farningham Wood, Kent. LondonHets] 24 May 2004 [Hertfordshire. Female. EcolEnt31:162-171] 23 May 1954 [Wimbledon Common, Surrey. LondonHets]
- 05F: 29 May 1955 [Aberystwyth, Cardiganshire. Male. EMM92:54-64] 31 May 1993 [Aston-sub-Edge, Gloucestershire. GloucsHets] 28 May 2000 [Breny Common, Cornwall. CornwallHets] 29 May 1995 [Dowdeswell Wood, Gloucestershire. GloucsHets] 27 May 1905 [Epping Forest, Essex. Female. LondonHets] 31 May 1932 [Esher Common, Surrey. LondonHets] 31 May

- 2005 [Evesham, Worcestershire. EMM143:7-10] 29 May 2011 [Fancott Meadows Nature Reserve, VC30. HN17/18:7] 31 May 1962 [Farningham Wood, Kent. LondonHets] 30 May 1954 [Ickenham Golf Course NR, Middlesex. LondonHets] 31 May 1952 [Monk's Wood, Huntingdonshire. EMM88:162] 30 May 1903 [Pamber Forest. Butler1923] 28 May 2012 [Rewell Wood, near Arundel, VC13. Hem5:189]
- 06A: 3 June 1932 [Arbrook Common, Surrey. LondonHets] 3 June 1950 [Cardiganshire. Male and females. EMM92:54-64] 2 June 1963 [Coulsdon, Surrey. LondonHets] 1 June 1966 [Oxenbourne NR, VC11. Hem3:106]
- 06B: 9 June 1963 [Challock, Kent. PTSLENHS1963Part1:67] 10 June 1967 [Darwin's Bank, Downe, Kent. LondonHets]
- 06C: 13/14 June 1981 [Blean Woods, Kent. PTBENHS15:31-32] 13 June 1983 [Brandon Park, VC26. Hem4:19] 15 June 1987 [Tresco, Cornwall. CornwallHets] 15 June 1944 [Woodchester Park, Gloucestershire. GloucsHets]
- 06D: 16 June 1983 [Croxtan, VC28. Hem4:19] 16 June 1983 [Devil's Punchbowl, VC28. Hem4:19] 18 June 1961 [Farningham Wood, Kent. LondonHets] 16 June 1954 [Rothamsted Experimental Station, Harpenden, Hertfordshire. Nymph. EMM92:313-325] 17 June 1953 [Rothamsted Experimental Station, Harpenden, Hertfordshire. Nymph. EMM92:313-325] 18 June 1951 [Rothamsted Experimental Station, Harpenden, Hertfordshire. Nymph. EMM92:313-325] 19 June 1977 [Sandwich Bay, Kent. PTBENHS11:66-67]
- 06E: 22 June 1963 [Godstone, Surrey. LondonHets] 25 June 1979 [Hessle Quarry, SE Yorkshire. EMM149:165-180] 24 June 1957 [Highnam Pinetum, Gloucestershire. GloucsHets] 22 June 1989 [Hore Point, Cornwall. CornwallHets] 25 June 1977 [Northward Hill NNR, Kent. PTBENHS11:67-68] 24 June 1957 [Podsmead, Gloucestershire. GloucsHets] 22 June 1944 [Puddlehill, Houghton Regis, Bedfordshire. EMM81:183-185] 21 June 1955 [Rhayader, Radnorshire. Male and nymph. EMM92:54-64] 25 June 2015 [SU473592, VC12. Hem3:54] 25 June 1955 [Wimbledon Common, Surrey. LondonHets]
- 06F: 27 June 1966 [Boreham Wood, Hertfordshire. LondonHets] 29 June 1933 [Loch Garten, near Aviemore, Inverness-shire. JSBE1:131-141] 29 June 1979 [Risby Park, near Bentley, SE Yorkshire. EMM149:165-180] 27 June 1979 [The Warrens, near South Cave, SE Yorkshire. EMM149:165-180] 30 June 1933 [Woking, Surrey. LondonHets]
- 07A: 5 July 1957 [Banstead Downs, Surrey. LondonHets] 4 July 1970 [Beechen Wood, Lullingstone Park, Kent. LondonHets] 3 July 1956 [Bricket Wood Common, Hertfordshire. LondonHets] 2 July 1932 [Byfleet, Surrey. LondonHets] 2 July 1980 [Chelsea Physic Garden, Middlesex. LondonHets] 3 July 1939 [Dolgelly, Merionethshire. Male and female. EMM92:54-64] 5 July 1963 [Epping Forest, Essex. LondonHets] 4 July 1954 [Happy Valley, Old Coulsdon, Surrey. LondonHets] 3 July 1989 [Newton Cliff, Cornwall. CornwallHets] 4 July 1942 [Regent's Park, Middlesex. LondonHets] 4 July 1944 [Sewell, near Houghton Regis, Bedfordshire. EMM81:183-185] 5 July 1944 [Starcross, South Devon. Ent88:89-91]
- 07B: 7 July 1963 [Coombe Hill, Buckinghamshire. LondonHets] 8 July 1995 [Dowdeswell Wood, Gloucestershire. GloucsHets] 6 July 1952 [Hackbridge, Surrey. LondonHets] 7 July 1900 [Horsley, Surrey. PSLENHS1900:15-16] 10 July 2001 [Innyside woodland, Penheale, Cornwall. CornwallHets] 7 July [Monk Soham House, Suffolk. Ent47:215-218] 7 July 1895 [Oxshott Heath, Surrey. LondonHets] 6 July [Scotland. Adult. TRESL109:379-394] 7 July 1950 [Trawscoed, Cardiganshire. Females and nymphs. EMM92:54-64]
- 07C: 12 July 2001 [Crowhill Valley, Trenowth, Cornwall. CornwallHets] 14 July 2003 [Great Cheverell Hill, VC8. Hem5:189] 12 July 2001 [Hoggs Moor, Cornwall. CornwallHets] 15 July 1953 [Oxshott Heath, Surrey. LondonHets] 11 July 2001 [Pendower Beach, Cornwall. CornwallHets] 11 July 1933 [Woking, Surrey. LondonHets]
- 07D: 17 July 1955 [Aberystwyth, Cardiganshire. Male, females and nymphs. EMM92:54-64] 20 July 1947 [Broom, Bedfordshire. EMM86:6-8] 20 July 1983 [Chalk Lane, The King's Forest, VC26. Hem4:19] 16 July 1911 [Chipstead, Surrey. Male. LondonHets] 20 July 2005 [Churchtown Farm, Saltash, Cornwall. CornwallHets] 17 July 2006 [Cotehele Wood, Cornwall. CornwallHets] 20 July 1955 [Derwenlas, Montgomeryshire. Males, female and nymph. EMM92:54-64] 19 July 1983 [Devil's Punchbowl, VC28. Hem4:19] 18 July [Monk Soham House, Suffolk. Nymph. Ent49:246-248] 17 July 1954 [Near Silsoe, Bedfordshire.

- EMM91:283] 19 July 1925 [Otford, Kent. Male. LondonHets] 20 July 1903 [Oxsted, Surrey. Female. LondonHets] 18 July 1955 [Penparcau, Cardiganshire. Female. EMM92:54-64] 20 July 1991 [Perrotts Brook, Gloucestershire. GloucsHets] 16 July 1992 [Sherborne Farm, Gloucestershire. GloucsHets] 17 July 1960 [Shoreham, Kent. LondonHets] 20 July 1946 [St Neots Pits, Bedfordshire. EMM86:6-8] 20 July 1983 [Two Mile Bottom, VC28. Hem4:19] 16 July 1963 [Waltham Abbey, Essex. LondonHets]
- 07E: 22 July 1957 [Aberfoyle, Perthshire. EMM94:93] 23 July 1980 [Boxhill, Surrey. LondonHets] 25 July 1946 [Boxmoor, Hertfordshire. EMM85:249-253] 25 July 1943 [Bushey, Hertfordshire. LondonHets] 21 July 1955 [Capel Bangor, Cardiganshire. Male. EMM92:54-64] 21 July 1950 [Cardiganshire. Male. EMM92:54-64] 21 July 1983 [Chalk Lane, The King's Forest, VC26. Hem4:19] 22 July 1956 [Fawkham, Kent. LondonHets] 21 July 1948 [Gravesend, Kent. LondonHets] 21 July 1954 [Grounds of the Rothamsted Experimental Station, Harpenden, Hertfordshire. LondonHets] 21 July 1955 [Llangurig, Montgomery. Nymphs. EMM92:54-64] 22 July 1955 [Nonsuch Park, Cheam, Surrey. LondonHets] 23 July 1995 [Partridge Way, Cirencester, Gloucestershire. GloucsHets] 21 July 1983 [Santon Warren, VC28. Hem4:19] 23 July 1983 [Swifts Hill, Gloucestershire. GloucsHets] 22 July 1955 [Tregaron Bog, Cardiganshire. Male. EMM92:54-64]
- 07F: 31 July 1973 [Boxwell Wood, Gloucestershire. GloucsHets] 31 July 1977 [Ellenden Wood, Whitstable, Kent. PTBENHS11:130] 26 July 1955 [Grounds of the Pest Infestation Laboratory, Slough, Buckinghamshire. EMM92:35] 27 July 1990 [Harmston Lowfields, near Aubourn, VC53. Hem3:86] 28 July 1957 [Oxshott Heath, Surrey. LondonHets] 26 July [Scotland. Adult. TRESL109:379-394]
- 08A: 4 August 1981 [Chelsea Physic Garden, Middlesex. PTBENHS16:50-52] 4 August 1967 [Creinch, Dumbartonshire. EMM114:21-24] 5 August 1976 [Darent Wood, Kent. LondonHets] 4 August 1955 [Esher Common, Surrey. LondonHets] 5 August 1950 [Leigh, near Reigate, Surrey. LondonHets] 1 August 1964 [Longfield, Kent. LondonHets] 4 August 1955 [Oxshott Heath, Surrey. LondonHets] 3 August 2006 [Port Quin, Cornwall. CornwallHets] 3 August 1967 [Torrinch, Dumbartonshire. EMM114:21-24] 3 August 1932 [Wimbledon Common, Surrey. LondonHets]
- 08B: 8 August 1967 [Aber Isle, Dumbartonshire. EMM114:21-24] 6 August 1967 [Clairinsh, Stirlingshire. EMM114:21-24] 9 August 1984 [Darland's Lake NR, Totteridge, Hertfordshire. LondonHets] 8 August 1964 [Dungeness, Kent. PTSLENHS1964:36] 9 August 1945 [Fancott, Bedfordshire. EMM86:6-8] 8 August 1955 [Kingsheath, near Northampton. Male. EMM92:21] 9 August 1955 [Kingsheath, near Northampton. Nymphs. EMM92:21] 10 August 1985 [Near Sapperton, Gloucestershire. GloucsHets] 8 August 1967 [Ring Wood East, Dumbartonshire. EMM114:21-24] 8 August [Scotland. Adult. TRESL109:379-394] 8 August 1979 [Trerice, Cornwall. CornwallHets]
- 08C: 11 August 1932 [Bookham Common, Surrey. LondonHets] 14 August 1947 [Cardington, near Bedford. PRESL(A)24:128-130] 12 August 1962 [Highham Marshes, Kent. PTSLENHS1962:97-98] 14 August 1945 [Luton, Bedfordshire. EMM86:6-8] 14 August 1945 [Luton, Bedfordshire. Nymph. EMM86:6-8] 15 August 1993 [Sedbury, Gloucestershire. GloucsHets] 15 August 1992 [Slimbridge, Gloucestershire. GloucsHets] 12 August 1998 [The Holmbush, Kelly Bray, Cornwall. CornwallHets]
- 08D: 17 August 1937 [Grounds of the Rothamsted Experimental Station, Harpenden, Hertfordshire. LondonHets] 18 August 1963 [Hatfield, Hertfordshire. LondonHets] 19 August 1985 [Near Cinderford, Forest of Dean, Gloucestershire. GloucsHets] 19 August 2002 [Penpoll Creek, Cornwall. CornwallHets] 20 August 1989 [Sandhurst NR, Gloucestershire. GloucsHets] 18 August 1962 [Streatham, Surrey. LondonHets]
- 08E: 21 August 2002 [Bossiney Cliffs, Cornwall. CornwallHets] 22 August 1947 [Cardington, near Bedford. PRESL(A)24:128-130] 22 August 2006 [Lansallos East Coombe, Cornwall. CornwallHets] 23 August 2005 [South Penquite Farm, Cornwall. CornwallHets] 25 August 1962 [Trottiscliffe, Kent. PTSLENHS1962:99-100]
- 08F: 31 August 1955 [Abbey Wood marshes, Kent. LondonHets] 29 August 1937 [Boxhill, Surrey. Male. LondonHets] 30 August 1948 [Boxhill, Surrey. LondonHets] 26 August 2006 [Carne Farm, Lanteglos, Cornwall. CornwallHets] 29 August 1994 [Dowdeswell Wood,

- Gloucestershire. GloucsHets] 30 August 1959 [Halling, Kent. PTSLENHS1959:91] 30 August 1952 [Hodgemoor Wood, Buckinghamshire. LondonHets] 27 August 1951 [Hoyle's Mouth, Penally, Pembrokeshire. EMM88:22] 27 August 1962 [Ranmore Common, Surrey. LondonHets] 28 August 1958 [Seasalter, near Whitstable, north-east Kent. ERJV71:217-220] 31 August 1993 [Smiths Covert, Barnsley, Gloucestershire. GloucsHets]
- 09A: 1 September 1991 [Astonbridge Hill, Gloucestershire. GloucsHets] 4 September 1965 [Bookham Common, Surrey. LondonHets] 2 September 1967 [Bromley, Kent. LondonHets] 2 September 1967 [Chislehurst, Kent. LondonHets] 4 September 1993 [Ruddle Marsh, Gloucestershire. GloucsHets]
- 09B: 9 September 1979 [Beddington, Surrey. LondonHets] 9 September 1985 [Dozmary Pool, Cornwall. CornwallHets] 6 September 1953 [Epsom Common, Surrey. LondonHets] 7 September 1968 [Farningham Wood, Kent. LondonHets] 7 September 2003 [Great Orcheton Farm, VC3. Hem5:189] 10 September 1926 [Horley, Surrey. LondonHets] 6 September 1930 [Keston, Kent. Nymph. LondonHets] 10 September 1994 [Lower Oddington Ashes, Gloucestershire. GloucsHets] 9 September 1979 [Mitcham Common, Surrey. LondonHets] 8 September [Moor House Nature Reserve, Penines, Westmoreland. TSBE19:173-235] 8 September 1935 [Netley Heath, Surrey. Male. LondonHets] 10 September 1985 [Port Quin, Cornwall. CornwallHets] 7 September 1958 [SW18 (=Wandsworth), Surrey. LondonHets] 8 September 1991 [Whelford Pools, Gloucestershire. GloucsHets]
- 09C: 13 September 1936 [Hayes Common, Kent. LondonHets] 13 September 2002 [Mossley Hill, Liverpool. EMM141:248] 14 September 1991 [Nagshead, Gloucestershire. GloucsHets] 15 September 1932 [Ranmore Common, Surrey. LondonHets] 14 September 1895 [Shirley Common, Surrey. LondonHets] 15 September 1990 [Westbury Brook NR, Plumhill, Gloucestershire. GloucsHets]
- 09D: 18 September 1931 [Bookham Common, Surrey. LondonHets] 18 September 1993 [Boxwell area, Gloucestershire. GloucsHets] 16 September 1905 [Chislehurst, Kent. PSLENHS1905-06:52-53] 16 September 1993 [Glendurgan Gardens, West Cornwall. BJENH13:106-107] 16 September 1933 [Knaphill, Woking, Surrey. LondonHets] 17 September 1995 [Lechlade Reserve, Gloucestershire. GloucsHets] 19 September 1993 [Midger area, Gloucestershire. GloucsHets] 19 September 1983 [Mitcham Common, Surrey. LondonHets] 20 September 1983 [Mitcham Common, Surrey. LondonHets] 18 September 1957 [Monamore Glen, Isle of Arran. EMM94:93] 19 September 1934 [Pyfford, Surrey. LondonHets] 17 September 1994 [Sherborne Farm, Gloucestershire. GloucsHets]
- 09E: 25 September 1955 [Bean, Kent. LondonHets] 25 September 1953 [Carshalton Beeches railway station, Surrey. LondonHets] 21 September 1998 [Chynhalls South Cliff, Cornwall. CornwallHets] 23 September 1951 [Farningham Woods, Kent. PTSLENHS1951-52:81] 21 September 1951 [Leith Hill, Surrey. LondonHets] 23 September 1993 [Porthallow, West Cornwall. BJENH13:106-107]
- 09F: 26 September 1957 [Ardrishnig, Argyllshire. EMM94:93] 30 September 1946 [Boxmoor, Hertfordshire. EMM85:249-253] 29 September 2004 [Clitters Wood, Gunnislake, Cornwall. CornwallHets] 29 September 1945 [Leighton Buzzard Pits, Bedfordshire. EMM86:6-8] 26 September 1983 [Mitcham Common, Surrey. LondonHets] 28 September 1983 [Mitcham Common, Surrey. LondonHets] 30 September 1989 [Oakley Wood, Gloucestershire. GloucsHets]
- 10A: 2 October 1955 [Boxhill, Surrey. LondonHets] 5 October 2009 [Midlands. Adult and exuvium. EMM146:36] 4 October 1983 [Mitcham Common, Surrey. LondonHets] 2 October 1954 [Tregaron Bog, Cardiganshire. Males and females. EMM92:54-64]
- 10B: 7 October 1927 [Lucan, Co Dublin. IrelandHets] 7 October 1956 [Mickleham Downs, Surrey. LondonHets] 9 October 1954 [Oxshott Heath, Surrey. LondonHets] 9 October 1994 [Woodchester Park, Gloucestershire. GloucsHets]
- 10C: 12 October 1984 [River Thames, Belvedere, Kent. ERJV101:47-49]
- 10D: 19 October 1932 [Pyfford, Surrey. LondonHets] 17 October 1993 [Whitcliff Park, Gloucestershire. GloucsHets]
- 10E: 24 October 1927 [Tibradden, Co Dublin. IrelandHets]

- 11A: 1 November 1944 [Houghton Regis, Bedfordshire. EMM81:183-185] 4 November 1984 [Oakridge Lynch, Gloucestershire. GloucsHets] 1 November 1908 [West End Common, Surrey. LondonHets]  
 11B: 6 November [Moor House Nature Reserve, Penines, Westmoreland. TSBE19:173-235]  
 11C: 12 November 1961 [Coulsdon, Surrey. LondonHets] 15 November 1936 [Elmstead Wood, Kent. Nymph. LondonHets]  
 11E: 23 November 1963 [Hayes Common, Kent. LondonHets] 21 November 1968 [Pilgrim Fort, Caterham, Surrey. LondonHets]  
 12C: 12 December 1937 [Benfleet, Essex. LondonHets] 15 December 1962 [Foots Cry, Kent. LondonHets] 14 December 1958 [Grounds of the Royal Botanic Gardens, Kew, Surrey. LondonHets]  
 12E: 23 December 1955 [Darenth Wood, Kent. LondonHets]

*Anthocoris pilosus* (Jakovlev) (Anthocoridae)

- 05C: 11 May 1993 [Gibraltar Point NNR, VC54. Hem3:86]

*Anthocoris sarothamni* Douglas & Scott (Anthocoridae)

- 01C: 14 January 1884 [Headley Lane. EMM21:24]  
 02F: 27 February 1959 [Near Gartness village, Stirlingshire. Adult. TRESL113:41-54]  
 04B: 10 April 1958 [Near Gartness village, Stirlingshire. Adult. TRESL113:41-54]  
 04D: 20 April 1959 [Near Gartness village, Stirlingshire. Adults and eggs. TRESL113:41-54]  
 04E: 24 April 1904 [Brandon, Suffolk. SuffolkHets]  
 05B: 10 May 1934 [Imperial College Biological Field Station, Slough, Buckinghamshire. TSBE2:47-67]  
 05C: 14 May 1934 [Imperial College Biological Field Station, Slough, Buckinghamshire. TSBE2:47-67] 11 May 1959 [Near Gartness village, Stirlingshire. Nymphs. TRESL113:41-54]  
 05E: 24 May 1915 [Darenth, Kent. LondonHets] 25 May 1963 [Farningham Wood, Kent. LondonHets]  
 06A: 1 June 2009 [Browndown coastal range, South Hampshire. Female. BJENH23:204]  
 06B: 8 June 1959 [Near Gartness village, Stirlingshire. Adults. TRESL113:41-54]  
 06C: 14 June 1936 [Chobham, Surrey. Female. LondonHets]  
 06F: 27 June 1960 [Boreham Wood, Hertfordshire. LondonHets] 29 June 1975 [Dartford Heath, Kent. LondonHets] 27 June 2001 [Wicken North & Doublewood, VC28. Hem4:41]  
 07A: 5 July 1965 [Farningham Wood, Kent. LondonHets] 1 July 1985 [Long Mynd, Shropshire. Hem5:156]  
 07B: 9 July 1951 [Esher, Surrey. LondonHets]  
 07C: 11 July 1937 [Chobham, Surrey. Males and females. LondonHets]  
 07D: 20 July 1947 [Broom, Bedfordshire. EMM86:6-8]  
 07E: 24 July 1954 [Burnham Beeches, Buckinghamshire. LondonHets] 25 July 1934 [Chobham, Surrey. Female. LondonHets]  
 07F: 28 July 1960 [Widford, near Chelmsford, Essex. LondonHets]  
 08A: 1 August 1994 [Barlston Common, VC39. Hem3:96]  
 08B: 7 August 1959 [Near Gartness village, Stirlingshire. Nymphs. TRESL113:41-54]  
 08E: 22 August 1933 [Greystones, Co Wicklow. IrelandHets]  
 09C: 14 September 1959 [Near Gartness village, Stirlingshire. Adult. TRESL113:41-54]  
 09D: 17 September 1976 [Darenth Wood, Kent. LondonHets]  
 11A: 3 November 1959 [Near Gartness village, Stirlingshire. Females. TRESL113:41-54]

*Anthocoris simulans* Reuter (Anthocoridae)

- 05C: 14 May 2010 [Sheringham Park, VC27. Hem4:42]  
 05F: 27 May 1988 [Horringer Park, Ickworth, VC26. Hem4:144]  
 06D: 19 June 2017 [Neen Sollars, Neenshilltop, Shropshire. Hem5:156]  
 07C: 12 July 2019 [Beverley, South-east Yorkshire. Hem6:255] 13 July 1952 [Little Missenden, Buckinghamshire. LondonHets]  
 08A: 3 August 1960 [Amptill Park, Amptill, Bedfordshire. EMM97:32-33]

- 08B: 6 August 1959 [Chesham, Buckinghamshire. LondonHets] 7 August 1967 [Wychwood Forest, Oxfordshire. EMM104:22]  
 08D: 16 August 1952 [Latimer, Buckinghamshire. Male. EMM90:36-40]  
 08E: 25 August 1984 [North Essex. HSGN4:4]  
 09A: 4 September 1950 [Amersham, Buckinghamshire. LondonHets]  
 09B: 8 September 2013 [Wicken Fen, VC29. Hem4:144]  
 09C: 14 September 1952 [Amersham, Buckinghamshire. LondonHets]  
 09D: 20 September 1952 [Amersham, Buckinghamshire. LondonHets]

*Anthocoris visci* Douglas (Anthocoridae)

- 07B: 10 July 1997 [Orchard near The Sturt, Shropshire. Hem5:156]  
 07C: 15 July 2014 [St Mary's Church, High Street, Oxfordshire. EMM150:240]  
 07F: 30 July 2005 [Box End, Kempston, VC30. HN7:13]  
 09D: 19 September 1998 [Stratford-upon-Avon, VC38. Hem3:96]  
 10A: 4 October 1889 [Hereford. Adults and nymphs. EMM25:427-428]

*Brachysteles parvicornis* (A. Costa) (Anthocoridae)

- 05C: 11 May 2001 [Cobbs Wood, Wimpole, VC29. Hem4:144]  
 06A: Whit Monday and Tuesday 1906 (4-5 June) [Deal. EMM42:162-163]  
 06F: 27 June 2012 [Willington Quarry, VC30. Female. HN19/20:11]  
 07F: 30 July 1904 [Kessingland, Suffolk. SuffolkHets]  
 09B: 9 September 1923 [Dungeness, Kent. EMM62:39-40]

*Buchananiella continua* (F.B. White) (Anthocoridae)

- 03A: 4 March 2007 [Cleethorpes, layby opposite Tesco, VC54. Hem3:86] 4 March 2002 [Swanwick NR, VC11. Hem3:106]  
 03C: 14 March 2014 [St Giles Church, Oxford. BJENH27:219-220]  
 03D: 19 March 2014 [St Giles Church, Oxford. BJENH27:219-220]  
 04B: 8 April 2016 [Wellington, Dothill & Beanhill Valley, Shropshire. Hem5:156]  
 04C: 11 April 2005 [Burnham-on-sea, Somerset. EMM141:166]  
 05C: 13 May 2004 [Flitwick Moor, Bedfordshire. Adults. EMM142:22]  
 05D: 18 May 2017 [University Parks, Oxford. BJENH31:25-26]  
 05E: 22 May 2017 [University Parks, Oxford. BJENH31:25-26]  
 06C: 12 June 2009 [Edgbaston Park, VC38. Hem3:96] 11 June 2012 [Warfield, Berkshire. HN19/20:10]  
 07B: 10 July 2019 [York Cemetery, York, North-east Yorkshire. Hem6:254]  
 07D: 20 July 2017 [Sydlings Copse, Oxford. BJENH31:25-26]  
 08A: 1 August 2005 [Pershore, Worcestershire. Adult and nymph. EMM141:248]  
 08B: 7 August 2015 [Brandon, VC26. Hem3:96] 9 August 2003 [Cockayne Hatley, Bedfordshire. Male. EMM142:22]  
 08C: 15 August 2008 [Ashleworth, VC34. HN13:11] 15 August 2016 [Bosham, Sussex. Hem5:13]  
 08D: 16 August 2006 [University Parks, Oxford, Oxfordshire. Hem5:13]  
 08E: 21 August 1997 [Garden of Buckingham Palace. Males and females. BJENH12:221-223]  
 08F: 31 August 2015 [Hinksey Park, Oxford, Watsonian Berkshire. Hem4:62]  
 09A: 1 September 2004 [Nonsuch Park, Surrey. Teneral male. EMM142:22] 5 September 2007 [University Parks, Oxford, Oxfordshire. Hem5:13]  
 09B: 7 September 2004 [Evesham, Worcestershire. Adults. EMM141:166]  
 09D: 20 September 2002 [Flitwick Moor, Bedfordshire. Adults. EMM142:22]  
 09E: 24 September 2002 [Flitwick Moor, Bedfordshire. Adults and nymphs. EMM142:22]  
 09F: 28 September 2008 [Swanton Novers Wood NNR, VC28. HN12:18]  
 10B: 8 October 2006 [Brixham, Berry Head, VC3. HN9:12] 9 October 2006 [Brixham, Berry Head, VC3. HN9:12] 7 October 2006 [Torquay, Hope's Nose, VC3. Nymphs. HN9:12] 10 October 2006 [Torquay, Maidencombe, VC3. HN9:12] 9 October 2008 [Woodmancote, VC33. HN13:11]

- 10C: 14 October 2006 [Torquay, Hope's Nose, VC3. Nymphs. HN9:12] 14 October 2006 [Torquay, Maidencombe, VC3. HN9:12] 15 October 2006 [Torquay, Maidencombe, VC3. HN9:12]  
 10D: 18 October 2003 [Flitwick Moor, Bedfordshire. Adults. EMM142:22] 17 October 2013 [St John Street, Oxford. BJENH27:219-220]  
 10F: 31 October 2002 [Ampthill Park, Bedfordshire. Adults. EMM142:22] 27 October 2006 [Brixham, Berry Head, VC3. HN9:12] 30 October 2004 [Maidenhead, Berkshire. EMM141:124] 27 October 2006 [Torquay, Hope's Nose, VC3. Nymphs. HN9:12]  
 11F: 27 November 2004 [Hertingfordbury, Hertfordshire. EMM142:22]

*Cardiastethus fasciiventris* (Garbiglietti) (Anthocoridae)

- 02D: 16 February 1935 [Near Wimborne, Dorset. EMM71:159-161]  
 03B: 10 March 2012 [Wellington, Dothill & Beanhill Valley, Shropshire. Hem5:156]  
 03E: 24 March 1933 [Windsor Forest. EMM69:105-106]  
 04A: 1 April 1934 [Near Barton Mills, Suffolk. Adults. EMM71:92-93]  
 04D: 16 April 1899 [Raydon Great Wood, near Hadleigh, Suffolk. EMM35:117]  
 05A: 4 May 1904 [Headley Lane, Surrey. LondonHets]  
 05B: 7 May 1905 [Buckland Hill, Surrey. LondonHets]  
 05C: 12 May 2002 [Swanwick NR, VC11. Hem3:106]  
 05D: 20 May 1920 [Freckenham, Cambridgeshire. Female. EMM93:49-51]  
 05F: 31 May 2014 [South of Weavers Down, VC13. Hem6:231]  
 06A: 4 June 1905 [Boxhill, Surrey. LondonHets]  
 06C: 14 June 2012 [Homefield Wood, Buckinghamshire. EMM151:176] 14 June 1990 [River Dart, Hembury Woods, South Devon. BJENH4:119-121]  
 06E: 24 June 2010 [Homefield Wood, Buckinghamshire. EMM151:176]  
 06F: 29 June 1872 [Weybridge. EMM9:119]  
 07B: 9 July 2019 [Haxby Cemetery, near York, North-east Yorkshire. Hem6:254] 10 July 2019 [Skipwith Common, South-east Yorkshire. Hem6:254] 10 July 2019 [York Cemetery, York, North-east Yorkshire. Hem6:254]  
 07C: 12 July 2016 [Bentley, VC12. Hem6:230] 15 July 2016 [Buckland Warren, Stanford in the Vale, VC22. Nymph reared in culture. Hem4:126] 13 July 2016 [Shotover Hill, Oxford, Oxfordshire. Nymph reared in culture. Hem4:126] 11 July 1990 [Sprydoncote Park, Killerton Estate, South Devon. BJENH4:119-121]  
 07D: 19 July 2000 [Boston, VC54. Hem3:86] 18 July 2006 [Cotehele House orchards, Cornwall. CornwallHets] 20 July 1960 [Tollard Royal, Wiltshire. Adults and nymphs. EMM96:152]  
 07F: 31 July 2017 [Beggars Corner, VC12. Hem6:230]  
 08A: 3 August 2006 [Lundy Hole, St Minver Highlands, VC2. HN8:11]  
 08B: 10 August 1996 [Ampthill Park, Bedfordshire. EMM133:261-262] 7 August 2016 [University Parks, Oxford, Oxfordshire. Nymph reared in culture. Hem4:126] 7 August 2016 [University Parks, Oxford, Oxfordshire. Nymph reared in culture. Hem4:126]  
 08C: 11 August 1995 [Thursley NNR, Surrey. EMM133:175-176]  
 08F: 26 August 2006 [Carne Farm, Lanteglos, VC2. HN8:11] 27 August 1930 [Coulston, Surrey. LondonHets] 26 August 2006 [Harbour Cove, Padstow, VC1. HN8:11] 31 August 2006 [Port Quin valley, VC2. HN8:11]  
 09A: 4 September 1937 [Boxhill, Surrey. LondonHets] 4 September 2004 [Hampton Wood NR, VC38. Hem3:96] 5 September 2007 [University Parks, Oxford. ERJV123:156] 4 September 2014 [Wheatfen, VC27. Hem4:38]  
 09C: 12-14 September 1955 [The Fleet, near Abbotsbury, Dorset. Adults and nymphs. EMM91:282-283]  
 10A: 3 October 1937 [Boxhill, Surrey. LondonHets]  
 11B: 8 November 1996 [Grafham Caravan Park, VC31. Adults and nymphs. ERJV109:98-100]

*Dufouriellus ater* (Dufour) (Anthocoridae)

- 03B: 10 March 1957 [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. LondonHets]

- 04A: 2 April 1933 [Hillingdon, Middlesex. Ent71:148-153]  
 04C: 11 April 1950 [Natural History Museum, Middlesex. LondonHets]  
 05A: 5 May 1956 [Langley, Buckinghamshire. LondonHets] 3 May 1830 [Sydenham, Surrey. LondonHets]  
 05B: 6 May 2008 [Maulden Wood, VC30. Adults of both sexes. HN13:10]  
 05E: 22 May 1991 [Mungden Wood, near Hurley, Berkshire. EMM130:65-66]  
 06A: 3 June 2011 [Fareham, VC11. Hem3:106]  
 06E: 24 June 2003 [Great Wood, Felbrigg, VC27. Hem4:42]  
 08C: 15 August 2014 [Tendring Hall, Stoke-by-Nayland, VC26. Hem5:189]  
 08E: 22 August 1998 [Castle Ward Park, County Down. Adult and nymphs. BJENH12:179]  
 08F: 28 August 1935 [Uxbridge, Middlesex. Ent71:148-153]  
 09A: 4 September 1949 [Natural History Museum, Middlesex. LondonHets]  
 09B: 7 September 1934 [Imperial College Biological Field Station, Slough, Buckinghamshire. TSBE2:47-67]  
 09C: 12-14 September 1955 [Near Abbotsbury, Dorset. Adults. EMM91:282-283]  
 09D: 18 September 1915 [Chingford, Epping Forest, Essex. LondonHets] 18 September 1915 [Fairmead, Epping Forest, Essex. LondonHets]  
 10A: 2 October 2014 [Ringstead woodland and quarry, VC28. Hem4:38]  
 10C: 11 October 1945 [Hampstead, Middlesex. LondonHets]  
 11A: 2 November 1949 [Natural History Museum, Middlesex. LondonHets]  
 11B: 8 November 1996 [Grafham Caravan Park, VC31. Adults and nymphs. ERJV109:98-100]

*Elatophilus nigricornis* (Zetterstedt) (Anthocoridae)

- 06E: 25 June 1953 [Chobham Common, Surrey. EMM89:279]  
 06F: 30 June 1954 [Burnham Beeches, Buckinghamshire. EMM90:205] 30 June 1876 [Hill of Moncrieff, Perth. EMM13:85-86] 27 June 1971 [Watlington Hill, Oxfordshire Chilterns. EMM107:166]  
 07A: 4 July 1964 [Near Tuddenham, West Suffolk. EMM100:87] 2 July 1955 [Oxshott, Surrey. EMM92:47-48]  
 07B: 10 July 2019 [Skipwith Common, South-east Yorkshire. Hem6:254]  
 08C: 15 August 2008 [Near Wickridge Street, VC33. HN13:11]  
 08E: 22 August 2006 [Maulden Wood, VC30. Female. HN9:14] 22 August 1935 [Rothamsted Experimental Station, Harpenden, Hertfordshire. Male. LondonHets]  
 08F: 27 August 2010 [Witley Common, Surrey. Hem6:244]  
 09A: 3 September 1949 [Woodfalls, Wiltshire. EMM88:45]  
 10A: 2 October 1937 [Sleights, near Whitby, NE Yorkshire. EMM81:118]

*Lyctocoris campestris* (Fabricius) (Anthocoridae)

- 01C: 11 January 1935 [Oswestry, Shropshire. Male. EMM93:49-51]  
 01F: 30 January 1949 [Lea Valley, Hertfordshire. Nymph. LondonHets]  
 02C: 14 February 1905 [High Holborn, Middlesex. LondonHets]  
 02F: 28 February 1927 [Putney, Surrey. LondonHets]  
 03A: 2 March 1935 [Brasted, Kent. Female. LondonHets]  
 03E: 25 March 1922 [Westerham, Kent. LondonHets]  
 04B: 10 April 1914 [Letchworth, Hertfordshire. Nymph. Butler1923]  
 04C: 15 April 1905 [Shirley, Surrey. Male. LondonHets]  
 05A: 1 May 1897 [Shirley Common, Surrey. LondonHets]  
 05B: 10 May 1954 [Ardington, Berkshire. EMM93:121-126] 10 May 1903 [West Wickham, Kent. Male. LondonHets]  
 05C: 11 May 1954 [Ardington, Berkshire. EMM93:121-126] 14 May 1932 [Oakham. EMM68:213-214] 14 May 1932 [Wothorpe, Northamptonshire. EMM68:213-214]  
 05D: 16 May 1905 [Buckland Hill, Surrey. Female. LondonHets] 19 May 1956 [Springwell gravel pits, West Hyde, Hertfordshire. Nymph. LondonHets]  
 05E: 22 May 1912 [Kidbrook, Kent. LondonHets]

- 05F: 29 May 1955 [Aberystwyth, Cardiganshire. Female. EMM92:54-64] 28 May 1905 [Headley Lane, Surrey. LondonHets]  
 06B: 6 June 1933 [Imperial College Biological Field Station, Slough, Buckinghamshire. Male. TSBE2:47-67]  
 06C: 11 June 1893 [Oxsted, Surrey. LondonHets] 15 June 1986 [Pershore, Worcestershire. EMM124:193-194] 15 June 1934 [Powerscourt Deerpark, Co Wicklow. IrelandHets]  
 06F: 29 June 1925 [Chobham Common, Surrey. LondonHets]  
 07A: 3 July 1946 [Boxmoor, Hertfordshire. EMM85:249-253]  
 07B: 7 July 1946 [Boxmoor, Hertfordshire. EMM85:249-253] 10 July [Moor House Nature Reserve, Penines, Westmoreland. TSBE19:173-235]  
 07C: 11 July 1956 [Little Chalfont, Buckinghamshire. LondonHets]  
 07D: 18 July 1896 [Eltham Well Hall, Kent. LondonHets]  
 07E: 24 July 1959 [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. LondonHets] 25 July 1933 [Hampton, Middlesex. LondonHets]  
 08B: 6 August 1895 [Bookham Common, Surrey. LondonHets] 8 August 1982 [Catisfield, VC11. Hem3:106] 6 August 1941 [Wimbledon Common, Surrey. LondonHets]  
 08D: 19 August 1921 [Near the city docks of Bristol. Adult swarm. EMM87:250]  
 08E: 22 August 1943 [Finchley, Middlesex. LondonHets]  
 08F: 28 August 1935 [Uxbridge, Middlesex. Ent71:148-153]  
 09A: 5 September 1896 [Lewisham, Kent. LondonHets]  
 09B: 10 September 1898 [Blackheath, Kent. LondonHets] 7 September 1968 [Farningham Wood, Kent. LondonHets] 6 September 1896 [Oxshott, Surrey. LondonHets]  
 09C: 13 September 1948 [Ashted, Surrey. LondonHets] 15 September 1940 [Merton Park, Surrey. LondonHets] 14 September 1949 [Richmond Park, Surrey. LondonHets]  
 09D: 19 September 1934 [Albury, Surrey. LondonHets] 20 September 1980 [Golgotham, Cornwall. CornwallHets]  
 09E: 24 September 1954 [Little Chalfont, Buckinghamshire. LondonHets]  
 10A: 4 October 1947 [Camberley, Surrey. LondonHets] 4 October 2013 [Cockleycle Wood, VC28. Hem4:38]  
 10C: 15 October 1941 [Richmond Park, Surrey. LondonHets] 12 October 1984 [River Thames, Belvedere, Kent. ERJV101:47-49]  
 11D: 16 November 1954 [Little Chalfont, Buckinghamshire. LondonHets]  
 11E: 21 November 1964 [Bromley, Kent. LondonHets]  
 12A: 1-2 December 1972 [High Halstow NNR, near Rochester, Kent. EMM109:236-237]  
 12B: 9 December 1958 [Churchdown, Gloucestershire. GloucsHets]  
 12C: 11 December [Moor House Nature Reserve, Penines, Westmoreland. TSBE19:173-235]  
 12F: 26 December 1956 [Stone, Near Dartford, Kent. LondonHets]

*Orius horvathi* (Reuter) (Anthocoridae)

- 07B: 10 July 2014 [Westwood, Peterborough, VC32. HN22:2]  
 07E: 25 July 2014 [Westwood, Peterborough, VC32. HN22:2]

*Orius laevigatus* (Fieber) (Anthocoridae)

- 03E: 24 March 1935 [Killarney, County Kerry. EMM75:29-31]  
 05A: 4 May 2016 [Acle Bridge, VC27. Hem4:42] 2 May 1965 [Higham Marshes, Kent. PTSLENHS1965:56-57]  
 05F: 29 May 1915 [Bayswater, Oxon. EMM75:29-31]  
 06C: 14 June 1951 [Trawscoed, Cardiganshire. Female. EMM92:54-64]  
 06F: 26 June 1939 [Boxhill, Surrey. LondonHets]  
 07A: 5 July 1944 [Sewell, near Houghton Regis, Bedfordshire. EMM81:183-185] 3 July 1949 [Wytham Wood, Berkshire. EMM90:250]  
 07C: 15 July 1914 [University Museum Grounds, Oxon. EMM75:29-31] 11 July 1914 [Wytham. EMM75:29-31]  
 07D: 16 July 1914 [Brighton, Birch Wood, Oxford. EMM75:29-31]

- 07E: 22 July 1944 [Finchley, Middlesex. EMM81:163-164] 22 July 1944 [Hampstead, Middlesex. LondonHets] 24 July 1937 [Harpenden. EMM75:29-31]  
 07F: 27 July 2000 [Rand Wood, VC54. Hem3:86] 28 July 2003 [Wickham Common, VC11. Hem3:106] 29 July 1914 [Yarnton. EMM75:29-31]  
 08A: 5 August 1935 [Tewkesbury, Gloucestershire. EMM75:29-31]  
 08B: 8 August 2019 [North Petherton, VC5. Hem6:263] 9 August 1933 [Tubney. EMM75:29-31] 7 August 1967 [Wychwood Forest, Oxfordshire. EMM104:22]  
 08C: 14 August 2006 [Eardington Quarry, Shropshire. Hem5:156]  
 08D: 17 August 1914 [Shotover, Oxon. EMM75:29-31] 18 August 1913 [Symonds Yat. EMM75:29-31]  
 08E: 22 August 2006 [Lansallos East Coombe, Cornwall. CornwallHets] 22 August 1953 [Rugby, Warwickshire. Male. EMM93:49-51]  
 08F: 28 August 1915 [Brasenose, Oxon. EMM75:29-31] 29 August 2011 [Bulford Field (& Dumbell Copse), VC8. Hem3:106] 29 August 1912 [Colwyn Bay. EMM75:29-31] 29 August 2006 [Mawnan Church to Porth Saxon, Cornwall. CornwallHets] 31 August 2006 [Port Quin valley, Cornwall. CornwallHets]  
 09A: 4 September 1949 [Ash Vale, Surrey. LondonHets] 3 September 1933 [Kirtlington Park, Oxon. EMM75:29-31] 1 September 2002 [Thorpe Salvin, Rotherham, VC63. HN7:15]  
 09B: 8 September 1992 [Churchdown Hill, Gloucestershire. GloucsHets] 8 September 1935 [Netley Heath, Surrey. Female. LondonHets] 8 September 1991 [Whelford Pools, Gloucestershire. GloucsHets]  
 09C: 12-14 September 1955 [Abbotsbury, Dorset. EMM91:282-283] 15 September 2014 [Holme saltmarsh and path, VC28. Hem4:39] 12-14 September 1955 [Near Abbotsbury, Dorset. EMM91:282-283] 14 September 1933 [Stevenage, Hertfordshire. EMM75:79]  
 09D: 19 September 1992 [Church Cove, Cornwall. CornwallHets]  
 09E: 23 September 1990 [Pit House Pond, Dean, Gloucestershire. GloucsHets]  
 09F: 29 September 1935 [Madeley, Staffordshire. EMM75:29-31]  
 10A: 2 October 1949 [Boxhill, Surrey. LondonHets] 4 October 1936 [Handley, Dorset. EMM75:29-31]  
 10E: 25 October 2003 [Loe Pool, Cornwall. CornwallHets]

*Orius laticollis* (Reuter) (Anthocoridae)

- 05B: 7 May 2005 [Whipsnade Wild Animal Park, Dunstable, Bedfordshire. BJENH20:123-125]  
 06D: 17 June 2000 [Debdene, Gloucestershire Cotswolds. BJENH19:34-37]  
 07F: 27 July 2000 [Willingham Forest, Picnic area and Ponds, VC54. Hem3:86]  
 08A: 4 August 2002 [Ashleworth Ham, Gloucestershire. BJENH19:34-37]  
 08B: 9 August 2010 [Fillongley, VC38. Hem3:96]  
 08D: 17 August 2015 [Wilstone Reservoir, Hertfordshire. Adult. Hem3:124]  
 09C: 15 September 2004 [Wicken Fen, VC29. Hem4:144]  
 09F: 29 September 1958 [Dungeness, Kent. Ent104:258-259]  
 10E: 21 October 1956 [Aylesford, Kent. Ent104:258-259]

*Orius majusculus* (Reuter) (Anthocoridae)

- 04D: 16 April 1949 [Osterley, Middlesex. LondonHets]  
 04E: 23 April 1949 [Hampstead Heath, Middlesex. LondonHets]  
 04F: 29 April 1944 [Walham, Gloucestershire. GloucsHets]  
 05A: 4 May 1935 [Goathland, Yorkshire. EMM75:29-31] 4 May 2008 [Titchfield Haven NNR, VC11. Hem3:106]  
 05B: 9 May 1909 [Yarnton, Oxon. EMM75:29-31]  
 05C: 12 May 1934 [Albury Pond, Surrey. LondonHets] 14 May 1934 [Folkestone Warren, East Kent. EMM75:79]  
 06A: 4 June 1950 [Hampstead Heath, Middlesex. LondonHets]  
 06B: 9 June 1963 [Challock, Kent. PTSLENHS1963Part1:67]  
 06C: 12 June 1955 [Bookham Common, Surrey. LondonHets] 12 June 1943 [Hampstead, Middlesex. LondonHets]

- 06E: 24 June 2003 [Great Wood, Felbrigg, VC27. Hem4:42]  
 07A: 5 July 1957 [Banstead Downs, Surrey. LondonHets]  
 07B: 10 July 1914 [University Museum Grounds, Oxon. EMM75:29-31] 9 July 1910 [Wytham, Berkshire. EMM75:29-31]  
 07C: 14 July 1990 [Beachley Point, Gloucestershire. GloucsHets] 15 July 1949 [Bookham Common, Surrey. LondonHets]  
 07D: 19 July 1953 [Bookham Common, Surrey. LondonHets] 20 July 1959 [Imperial College Biological Field Station, Slough, Buckinghamshire. LondonHets] 16 July 1989 [Lancut Reserve, Gloucestershire. GloucsHets] 20 July 1910 [Water Eaton, Oxon. EMM75:29-31]  
 07F: 29 July 1937 [Forton, Staffordshire. EMM75:79] 26 July 1955 [Grounds of the Pest Infestation Laboratory, Slough, Buckinghamshire. EMM92:35] 26 July 1953 [Hounslow Heath, Middlesex. LondonHets] 30 July 1951 [West End Common, Esher, Surrey. LondonHets] 29 July 1960 [Writtle, near Chelmsford, Essex. LondonHets]  
 08A: 4 August 1919 [Chesterton. EMM75:29-31] 1 August 1910 [Cothill, Berkshire. EMM75:29-31] 5 August 1915 [Thame Park, Oxon. EMM75:29-31] 1 August 1995 [Westmancote, Worcestershire. EG48:23-33] 3 August 1937 [Wicken. EMM75:29-31]  
 08B: 9 August 1953 [Bookham Common, Surrey. LondonHets] 9 August 1984 [Darland's Lake NR, Totteridge, Hertfordshire. LondonHets] 8 August 1964 [Dungeness, Kent. PTSLENHS1964:36] 9 August 1915 [Shotover, Oxon. EMM75:29-31]  
 08C: 14 August 1960 [Bookham Common, Surrey. LondonHets] 12 August 1915 [Godstow. EMM75:29-31] 12 August 1914 [Headington, Oxon. EMM75:29-31] 12 August 2004 [Potterhanworth Booths, VC53. Hem3:86] 15 August 1992 [Purton Timber Ponds, Gloucestershire. GloucsHets] 15 August 1993 [Sedbury, Gloucestershire. GloucsHets] 11 August 1899 [Wisley Common, Surrey. LondonHets]  
 08D: 19 August 1947 [Cardington, near Bedford. PRESL(A)24:128-130] 16 August 1935 [Ellesmere, Shropshire. EMM75:79] 20 August 1989 [Over Ponds, Gloucestershire. GloucsHets]  
 08E: 21 August 1911 [Alum Bay, Isle of Wight. EMM75:29-31] 23 August 1964 [Ruislip NR, Middlesex. Adults. LondonHets]  
 08F: 29 August 1918 [Cheshunt, Hertfordshire. LondonHets] 29 August 1912 [Colwyn Bay. EMM75:29-31] 30 August 1959 [Halling, Kent. PTSLENHS1959:91] 26 August 1937 [Harpenden, Hertfordshire. EMM75:29-31] 28 August 1925 [Woodford, Hertfordshire. LondonHets]  
 09A: 4 September 1915 [Brasenose, Oxon. EMM75:29-31] 4 September 1918 [Cambridge. EMM75:29-31] 5 September 1937 [Harpenden, Hertfordshire. LondonHets] 1 September 1934 [Imperial College Biological Field Station, Slough, Buckinghamshire. TSBE2:47-67] 2 September 2015 [Shoreham Airport, VC13. Hem6:231]  
 09B: 10 September 1994 [Lower Oddington Ashes, Gloucestershire. GloucsHets] 10 September [Monk Soham House, Suffolk. Ent50:64-66] 6 September 1944 [Shurdington Sandpits, Gloucestershire. GloucsHets]  
 09C: 12 September 1936 [Byfleet, Surrey. PTSLENHS1936-37:39-40]  
 09D: 19 September 1947 [Cardington, near Bedford. PRESL(A)24:128-130] 16 September 1933 [Knaphill, Woking, Surrey. LondonHets] 17 September 1995 [Lechlade Reserve, Gloucestershire. GloucsHets] 17 September 1905 [Wisley, Surrey. LondonHets]  
 09E: 22 September 2003 [Wandsworth Common, Surrey. BJENH17:181-182]  
 10A: 5 October 1976 [Darenth Wood, Kent. LondonHets] 1 October 1934 [Imperial College Biological Field Station, Slough, Buckinghamshire. Adults. LondonHets]

*Orius niger* (Wolff) (Anthocoridae)

- 05F: 31 May 2014 [South of Weavers Down, VC13. Hem6:231]  
 06C: 12 June 2001 [Miles Hill, VC12. Hem6:230]  
 06D: 18 June 1955 [Cripplegate, Middlesex. LondonHets] 20 June 1958 [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. LondonHets] 20 June 2001 [Mullion Cove village, Cornwall. CornwallHets]  
 06E: 25 June 1977 [Northward Hill NNR, Kent. PTBENHS11:67-68]

- 07A: 2 July 1980 [Chelsea Physic Garden, Middlesex. LondonHets] 1 July 1930 [Crowthorne. EMM75:29-31] 1 July 1950 [Finchley Road, NW8, Middlesex. LondonHets] 1 July 1944 [Southill, near Shefford, Bedfordshire. EMM81:183-185]  
 07B: 8 July 1936 [Whixall Moss. EMM75:29-31]  
 07C: 15 July 1930 [Benfleet. EMM75:29-31] 15 July 1990 [Merring Meend NR, Plumhill, Gloucestershire. GloucsHets]  
 07D: 20 July 2005 [Churchtown Farm, Saltash, Cornwall. CornwallHets]  
 07E: 24 July 1954 [Abbey Wood Marshes (=Erith Marshes), Kent. LondonHets] 25 July 1948 [Tingrith Gravel Pit, Bedfordshire. EMM86:6-8]  
 07F: 29 July 1949 [Boxhill, Surrey. LondonHets] 27 July 1990 [Fosdyke Canal, near Saxilby, VC54. Hem3:86] 28 July 1951 [Oxshott, Surrey. LondonHets] 29 July 1944 [Walham, Gloucestershire. GloucsHets]  
 08A: 4 August 1981 [Chelsea Physic Garden, Middlesex. PTBENHS16:50-52] 5 August 1976 [Darenth Wood, Kent. LondonHets]  
 08B: 9 August 1984 [Darland's Lake NR, Totteridge, Hertfordshire. LondonHets] 9 August 1953 [Hounslow Heath, Middlesex. LondonHets]  
 08C: 13 August 1965 [Hamersmith, Middlesex. LondonHets]  
 08D: 16 August 1945 [Bedfordshire. EMM86:6-8] 16 August 1933 [Cannock Chase, Staffordshire. EMM75:79] 20 August 2007 [Royal Spithead Hotel, VC10. Hem3:52]  
 08E: 23 August 1924 [Deal. Adults and nymphs. EMM75:29-31]  
 08F: 31 August 1955 [Abbey Wood Marshes (=Erith Marshes), Kent. LondonHets] 28 August 1995 [Hock Cliff, Fretherne, Gloucestershire. GloucsHets] 29 August 1964 [St Albans, Hertfordshire. LondonHets]  
 09B: 7 September 1948 [Arbrook, Surrey. LondonHets] 10 September 1947 [Ashtead, Surrey. LondonHets] 8 September 1934 [Delamere, Cheshire. EMM75:29-31] 9 September 1979 [Mitcham Common, Surrey. LondonHets]  
 09C: 13 September 1948 [Ashtead, Surrey. LondonHets] 15 September 1957 [Benfleet, Essex. LondonHets] 12 September 2013 [Carrstone Pit, Snettisham, VC28. Hem4:39]  
 09F: 30 September 1933 [Maer Woods, Staffordshire. EMM75:79] 29 September 1929 [Oxshott. EMM75:29-31]  
 10A: 1 October 1949 [Hampstead Heath, Middlesex. LondonHets] 2 October 1968 [Long Ashton Research Station, Bristol. Female. EMM109:132-139]  
 10B: 6 October 1907 [Barton Mills, Suffolk. EMM75:29-31]  
 10C: 15 October 1966 [Oxshott, Surrey. PTSLENHS1967:26-28]  
 10D: 16 October 1929 [Cannock Chase, Staffordshire. EMM75:79]  
 11A: 1 November 1944 [Houghton Regis, Bedfordshire. EMM81:183-185]

*Orius niger/laevigatus* AMBIGUOUS (Anthocoridae)

- 02A: 5 February 1903 [Oxshott, Surrey. Female. LondonHets]  
 06D: 20 June 1925 [Chobham Common, Surrey. LondonHets]  
 06F: 30 June 1903 [River Thames, Milton, Gravesend, Kent. LondonHets]  
 07C: 12 July 1903 [Dartford, Kent. LondonHets] 12 July 1925 [Prees Heath, near Whitchurch, Shropshire. EMM61:207]  
 07D: 18 July 1926 [Ferrybank, Arklow, Co Wicklow. IrelandHets]  
 07E: 22 July 1933 [Glenageary, Co Dublin. IrelandHets]  
 08A: 2 August 1930 [Askintinny, Co Wicklow. IrelandHets]  
 08B: 9 August 1928 [Howth, Co Dublin. IrelandHets] 8 August 1931 [Imperial College Biological Field Station, Slough, Buckinghamshire. TSBE2:47-67] 8 August 1891 [Oxshott Heath, Surrey. LondonHets]  
 08C: 15 August 1937 [Eynsford, Kent. PTSLENHS1937-38:49-50]  
 08D: 19 August 1933 [Glenageary, Co Dublin. IrelandHets] 18 August 1931 [Imperial College Biological Field Station, Slough, Buckinghamshire. Male. TSBE2:47-67] 18 August 1931 [Imperial College Biological Field Station, Slough, Buckinghamshire. Male. LondonHets] 16 August 1927 [Kilcoole, Co Wicklow. IrelandHets]  
 08F: 28 August 1933 [Woking, Surrey. LondonHets]

- 09A: 1 September 1935 [Chobham, Surrey. Male. LondonHets]  
 09B: 8 September 1935 [Byfleet, Surrey. PTSLENHS1935-36:27-28] 9 September 1929  
 [Glenmore, Kilkenny. IrelandHets] 6 September 1933 [Greystones, Co Wicklow. IrelandHets]  
 7 September 1935 [Headley Lane, Surrey. Male. LondonHets] 10 September 1925 [Killarney,  
 North Kerry. IrelandHets] 8 September 1935 [Netley Heath, Surrey. Male. LondonHets] 10  
 September 1898 [Shirley Common, Surrey. LondonHets] 8 September 1929 [Waterford, Co  
 Waterford. IrelandHets] 7 September 1933 [Woking, Surrey. LondonHets]  
 09D: 19 September 1939 [Chobham, Surrey. Males. LondonHets] 17 September 1893 [Dargle, Co  
 Wicklow. IrelandHets] 16 September 1933 [Knaphill, Woking, Surrey. LondonHets] 16  
 September 1914 [Shirley Common, Surrey. LondonHets]  
 09F: 30 September 1922 [Otford, Kent. LondonHets]  
 10A: 4 October 1936 [Chobham, Surrey. Male and females. LondonHets]  
 10E: 24 October 1937 [Mill Hill, Middlesex. LondonHets]  
 11E: 23 November 1930 [Gravesend district, Kent. Female. LondonHets]

*Orius vicinus* (Ribaut) (Anthocoridae)

- 05C: 15 May 1984 [Cogges Manor Farm, VC23. Hem5:146]  
 05F: 29 May 2011 [Fancott Meadows Nature Reserve, VC30. HN17/18:7]  
 07B: 9 July 2003 [Pond Field, Wimpole, VC29. Hem4:144]  
 07C: 14 July 1990 [Beachley Point, Gloucestershire. GloucsHets]  
 07E: 24 July 1995 [Cirencester, Gloucestershire. GloucsHets] 23 July 2000 [Market Rasen, Dear  
 Street, VC54. Hem3:86]  
 08A: 5 August 2018 [Albion Street, Hull, VC61. Adults. Hem6:214] 2 August 2011 [Fareham,  
 VC11. Hem3:106]  
 08C: 15 August 2003 [Great Wood, Felbrigg, VC27. Hem4:42] 11 August 2012 [Narborough,  
 VC55. Hem3:96]  
 08F: 30 August 2018 [Marford quarry, VC50. Hem6:218]  
 09A: 1 September 2004 [Nonsuch Park, Cheam, Surrey. BJENH18:208]  
 09C: 15 September 2014 [Holme saltmarsh and path, VC28. Hem4:39] 15 September 1990  
 [Merring Meend NR, Plumhill, Gloucestershire. GloucsHets] 13 September 2002 [Mossley  
 Hill, Liverpool. EMM141:248]

*Orius vicinus/laticollis* AMBIGUOUS (Anthocoridae)

- 02B: 6 February 1940 [Bookham Common, Surrey. LondonHets]  
 04E: 22 April 1939 [Bookham Common, Surrey. LondonHets]  
 05B: 8 May 1934 [Imperial College Biological Field Station, Slough, Buckinghamshire.  
 TSBE2:47-67]  
 05C: 13 May 1956 [Bookham Common, Surrey. LondonHets] 11 May 1951 [Hodgemoor Wood,  
 Buckinghamshire. LondonHets]  
 06B: 9 June 1940 [Albury Pond, Surrey. LondonHets] 9 June 1924 [Taff's Well, Glamorgan.  
 EMM62:21]  
 06C: 15 June 1954 [Datchet, Buckinghamshire. LondonHets] 15 June 1934 [Imperial College  
 Biological Field Station, Slough, Buckinghamshire. TSBE2:47-67] 14 June 1951 [Trawscoed,  
 Cardiganshire. Female. EMM92:54-64]  
 06D: 16 June 1955 [Egham, Surrey. LondonHets] 17 June 1940 [Esher Common, Surrey.  
 LondonHets] 16 June 1914 [Headington Wick, Oxon. EMM75:29-31]  
 07A: 2 July 1922 [Byfleet, Surrey. LondonHets] 2 July 1980 [Chelsea Physic Garden, Middlesex.  
 LondonHets]  
 07C: 12 July 1952 [Amersham, Buckinghamshire. LondonHets] 11 July 1952 [Oxshott, Surrey.  
 LondonHets]  
 07D: 17 July 1954 [Near Silsoe, Bedfordshire. EMM91:283]  
 07E: 24 July 1954 [Abbey Wood marshes, Kent. LondonHets] 22 July 1949 [Ockham, Surrey.  
 LondonHets]  
 07F: 29 July 1949 [Boxhill, Surrey. LondonHets] 31 July 1943 [Finchley, Middlesex.  
 LondonHets] 26 July 1955 [Grounds of the Pest Infestation Laboratory, Slough,

- Buckinghamshire. EMM92:35] 26 July 1937 [Harpenden, Hertfordshire. EMM75:29-31] 31 July 1937 [Wicken. EMM75:29-31]
- 08A: 4 August 1981 [Chelsea Physic Garden, Middlesex. PTBENHS16:50-52] 3 August 1937 [Freckenhams. EMM75:29-31] 1 August 1943 [Hampstead, Middlesex. LondonHets] 1 August 1937 [Near Chatteris. EMM75:29-31] 3 August 1951 [NW8 (= St John's Wood), Middlesex. LondonHets] 5 August 1935 [Tewkesbury, Gloucestershire. EMM75:29-31] 3 August 1932 [Wimbledon Common, Surrey. LondonHets]
- 08B: 6 August 1940 [Boxhill, Surrey. LondonHets] 7 August 1937 [Boxhill, Surrey. Female. LondonHets] 7 August 1937 [Leighton Buzzard. EMM75:29-31] 10 August 1967 [Long Ashton Research Station, Bristol. Female. EMM109:132-139] 6 August 1915 [Thame Park, Oxon. EMM75:29-31]
- 08C: 11 August 1982 [Garden of Buckingham Palace. PTBENHS17:37-39] 12 August 1955 [Harpenden, Hertfordshire. LondonHets] 15 August 1916 [Rickmansworth. EMM75:29-31] 12 August 1914 [Weston-on-the-Green. EMM75:29-31]
- 08D: 20 August 1937 [Aqualate Mere, Staffordshire. EMM75:79] 18 August 1962 [Streatham, Surrey. LondonHets]
- 08E: 22 August 1937 [Chiddingfold, Surrey. LondonHets] 24 August 1933 [Glenageary, Co Dublin. IrelandHets]
- 08F: 31 August 1955 [Abbey Wood marshes, Kent. LondonHets] 29 August 1945 [Pertenhall, Bedfordshire. EMM86:6-8]
- 09A: 1 September 1895 [Blackheath, Kent. LondonHets]
- 09B: 8 September 1910 [Broxbourne. EMM75:29-31]
- 09C: 14 September 1912 [Cheshunt, Hertfordshire. LondonHets] 11 September 1933 [Devil's Glen, Co Wicklow. IrelandHets] 12 September 1964 [Stoke Common, Buckinghamshire. LondonHets]
- 09D: 18 September 1909 [Broxbourne, Hertfordshire. LondonHets] 17 September 1951 [Esher Common, Surrey. LondonHets]
- 09E: 23 September 1923 [Hale End, Epping Forest, Essex. LondonHets]
- 09F: 28 September 1983 [Mitcham Common, Surrey. LondonHets]
- 10C: 11 October 1951 [Little Chalfont, Buckinghamshire. LondonHets]
- 10D: 20 October 1934 [Pulford, Cheshire. EMM75:29-31]
- 11C: 11 November 1912 [Great Salkeld, Cumberland. EMM75:29-31]

*Temnostethus gracilis* Horváth (Anthocoridae)

- 06A: 4 June 1997 [Chase Wood, VC13. Hem6:231]
- 06B: 10 June 1919 [Royston, Hertfordshire. LondonHets]
- 06D: 17 June 1960 [Box Hill, Oxfordshire. EMM96:152]
- 06E: 24 June 2003 [Great Wood, Felbrigg, VC27. Hem4:42]
- 07A: 4 July 1965 [Knowle Park, Kent. PTSLENHS1965:59-60] 2 July 2006 [Market Rasen, Dear Street, VC54. Hem3:86] 1 July 1922 [Westerham, Kent. Female. LondonHets]
- 07B: 10 July 2001 [Dizzard Oakwood, Cornwall. CornwallHets] 8 July 2001 [Red Moor, Cornwall. CornwallHets]
- 07C: 12 July 2001 [Crowhill Valley, Trenowth, Cornwall. CornwallHets] 11 July 2001 [The Straythe, Caragloose, Cornwall. CornwallHets]
- 07D: 20 July 2005 [Churchtown Farm, Saltash, Cornwall. CornwallHets] 20 July 1960 [Cranborne, Dorset. EMM96:152] 17 July 1932 [Dromahair, Leitrim. EMM125:206] 20 July 1960 [Tollard Royal, Wiltshire. EMM96:152]
- 07E: 23 July 1922 [Brasted, Kent. Male. LondonHets] 24 July 1964 [Donard Lodge, Down. EMM125:206] 21 July 1960 [Gloucestershire. EMM96:112] 21 July 1955 [Llangurig, Montgomery. Female. EMM92:54-64] 21 July 1951 [Longdown Hill, Buckinghamshire. LondonHets] 24 July 1932 [Sligo Pt., Sligo. EMM125:206] 22 July 2014 [Tendring Hall, Stoke-by-Nayland, VC26. Hem5:189] 23 July 2015 [TL46, VC29. Hem3:96]
- 07F: 27 July 1933 [Glenageary, Co Dublin. EMM125:206]
- 08A: 3 August 1927 [Bray Head, Wicklow. EMM125:206]

- 08B: 8 August 1967 [Aber Isle, Dumbartonshire. EMM114:21-24] 8 August 2006 [Foage Farm, Zennor, Cornwall. CornwallHets] 6 August 1966 [Inchcailloch, Stirlingshire. EMM114:21-24] 8 August 2019 [Lydeard Hill, Quantocks, VC5. Hem6:263]
- 08C: 11 August 1933 [Castlemartyr, Cork. EMM125:206] 13 August 1837 [Richmond Park, Surrey. LondonHets]
- 08D: 17 August 2006 [Gorrangorras Creek, Penryn, Cornwall. CornwallHets] 17 August 1995 [Highgrove House, Gloucestershire. GloucsHets] 19 August 2006 [Hor Point, Cornwall. CornwallHets] 19 August 2002 [Penpoll Creek, Cornwall. CornwallHets] 20 August 2006 [Porth Chapel, Cornwall. CornwallHets]
- 08E: 25 August 1895 [Donabate, Co Dublin. EMM125:206] 22 August 2006 [Lansallos East and West Coombes, Cornwall. CornwallHets] 23 August 2005 [South Penquite Farm, Cornwall. CornwallHets]
- 08F: 26 August 2006 [Harbour Cove, Padstow, Cornwall. CornwallHets] 31 August 1966 [Inchcailloch, Stirlingshire. EMM114:21-24] 31 August 1931 [Macmine, Wexford. EMM125:206] 29 August 2006 [Mawnan Church to Porth Saxon, Cornwall. CornwallHets] 26 August 2006 [Pendower House, Lanteglos, Cornwall. CornwallHets] 31 August 2006 [Porth Quin valley, Cornwall. CornwallHets] 30 August 1931 [Rosslare, Wexford. EMM125:206]
- 09B: 9 September 1951 [Bookham Common, Surrey. LondonHets] 8 September 1913 [Byfleet, Surrey. LondonHets]
- 09D: 16 September 2014 [Sculthorpe Moor NR, VC28. Hem3:96]
- 10A: 3 October 1927 [Donabate, Co Dublin. EMM125:206]

*Temnostethus pusillus* (Herrich-Schaeffer) (Anthocoridae)

- 05C: 15 May 2014 [Brandon, VC28. Hem3:96]
- 06C: 14 June 2005 [Helston Boating Lake, Cornwall. CornwallHets]
- 06D: 20 June 2005 [North end of Swanpool, Cornwall. CornwallHets]
- 06E: 25 June 2003 [Mullion Car Park, Cornwall. CornwallHets]
- 07A: 2 July 1975 [Flannan Isles, Scotland. Male brachypter and nymphs. EG28:283-284] 4 July 1965 [Knowle Park, Kent. PTSLENHS1965:59-60]
- 07E: 22 July 2014 [Tendring Hall, Stoke-by-Nayland, VC26. Hem3:96]
- 07F: 28 July 1985 [Wychwood Forest SSSI, VC23. Hem5:146]
- 08D: 19 August 2007 [Newtown Harbour SSSI, VC10. Hem3:52] 19 August 1988 [Wyre Forest, North of Lem Hill, Shropshire. Hem5:156]
- 08F: 26-27 August 1929 [Ardagh, Killarney, Kerry. EMM125:206] 28 August 1933 [Killarney, Kerry. EMM125:206] 26 August 2006 [Pendower House, Lanteglos, Cornwall. CornwallHets]
- 09B: 8 September 1931 [Drogheda, Louth. EMM125:206]
- 09E: 24 September 1953 [Salcey Forest, Northamptonshire. Females. EMM93:49-51]
- 09F: 28 September 1928 [Woodlawn, Killarney, Kerry. EMM125:206]
- 10A: 5 October 2003 [Whisby Nature Park, VC53. Hem3:86]

*Temnostethus pusillus/gracilis* AMBIGUOUS (Anthocoridae)

- 06E: 21 June 1930 [Hayes Common, Kent. Females. LondonHets]
- 07E: 23 July 1944 [Shewel Wood, Gloucestershire. GloucsHets]
- 08B: 7 August 1937 [Boxhill, Surrey. Male and female. LondonHets]
- 08C: 15 August 1937 [Harpenden, Hertfordshire. LondonHets]
- 08D: 16 August 1948 [Bookham Common, Surrey. LondonHets]
- 08F: 26 August 1925 [Killarney, North Kerry. IrelandHets]
- 09C: 13 September 1903 [Headley Lane, Surrey. LondonHets]
- 10A: 4 October 1936 [Chobham, Surrey. Male. LondonHets]
- 10E: 24 October 1927 [Tibradden, Co Dublin. IrelandHets]

*Temnostethus tibialis* Reuter (Anthocoridae)

- 06E: 25 June 1970 [Pamber Forest, Hampshire. Female macropter. EMM107:170-171]
- 07A: 3 July 1964 [Silwood Park, Sunninghill, Berkshire. Male. EMM107:170-171]

07B: 9 July 1986 [Oxleas Wood SSSI, Shooters Hill, West Kent. Female macropter. ERJV102:21-23]

10A: 4 October 1929 [Celbridge, Kildare. Female macropter. EMM125:206]

*Tetrupleps bicuspidis* (Herrich-Schaeffer) (Anthocoridae)

- 01B: 6 January 1960 [Farningham Wood, Kent. LondonHets]  
 01F: 31 January 2001 [Doddington, crossroads by wood, VC53. Hem3:86]  
 02D: 18 February 1934 [Ballyhenry, Co Wicklow. IrelandHets]  
 06A: 3 June 1909 [Shirley, Surrey. LondonHets]  
 06F: 29 June 1943 [Hampstead, Middlesex. LondonHets] 28 June 2016 [University Parks, Oxford. Female. BJENH30:191-192]  
 07A: 5 July 1956 [Langley Park, Buckinghamshire. LondonHets]  
 07B: 9 July 1905 [Mickleham, Surrey. Males and females. LondonHets] 8 July 1899 [West Wickham Wood, Kent. LondonHets]  
 07D: 18 July 1944 [Albury, Surrey. Females. LondonHets] 20 July 1960 [Cranborne, Dorset. EMM96:152] 19 July 1960 [Harefield, Middlesex. LondonHets] 17 July 1948 [Mickleham Downs, Surrey. PTSLENHS1948-49:73-74] 17 July 1960 [Oxshott Heath, Surrey. LondonHets] 20 July 2017 [Sydlings Copse, near Oxford. Females. BJENH30:191-192] 19 July 1960 [Watford, Hertfordshire. LondonHets]  
 08B: 8 August 1926 [Boxhill, Surrey. Female. LondonHets] 8 August 1960 [Haynes, Bedfordshire. EMM97:32-33] 7 August 1954 [Penn Wood, Buckinghamshire. LondonHets]  
 08C: 13 August 1911 [Boxhill, Surrey. Male. LondonHets] 14 August 1939 [Boxhill, Surrey. Female. LondonHets] 12 August 1960 [Kensworth, Bedfordshire. EMM97:32-33]  
 08D: 18 August 1916 [Rickmansworth, Hertfordshire. LondonHets]  
 08E: 22 August 1933 [Greystones, Co Wicklow. IrelandHets]  
 08F: 30 August 1936 [Blackheath and Farley Heath, Surrey. PTSLENHS1936-37:35-36]  
 09A: 5 September 1866 [G. W. (Glanvilles Wootton). EMM69:234-245] 4 September 1933 [Maynooth, Co Kildare. IrelandHets] 3 September 1930 [Near Mullingar, Co Westmeath. IrelandHets]  
 09B: 9 September 1952 [Esher Common, Surrey. LondonHets] 10 September 1944 [Rodborough Fort, Gloucestershire. GloucsHets]  
 09C: 11 September 1904 [Headley Lane, Surrey. LondonHets]  
 09D: 17 September 1929 [Liffey Valley, Co Dublin. IrelandHets] 20 September 1929 [Santry Demesne, Co Dublin. IrelandHets]  
 09E: 23 September 1951 [Amersham, Buckinghamshire. LondonHets] 23 September 1929 [Leixlip, Co Kildare. IrelandHets] 21 September 1895 [West Wickham Wood, Kent. LondonHets]  
 10A: 2 October 1949 [Boxhill, Surrey. LondonHets] 4 October 1929 [Celbridge, Co Kildare. IrelandHets] 2 October 2008 [Little Comberton, Worcestershire. EMM145:171] 2 October 1892 [Mount Pelier, Co Dublin. IrelandHets]  
 10B: 7 October 1954 [Esher Common, Surrey. LondonHets]  
 10C: 14 October 1962 [Northchurch, near Berkhamsted, Hertfordshire. LondonHets]  
 10E: 22 October 1950 [Amersham, Buckinghamshire. LondonHets]

*Xylocoridea brevipennis* Reuter (Anthocoridae)

- 03A: 2 March 1898 [Richmond Park, Surrey. EMM34:251]  
 07A: 3 July 2015 [Wyre Forest, Longdon Wood, Shropshire. Hem5:156]  
 10C: 12 October 1930 [Cwrt-yr-ala, Penarth, Glamorgan. EMM66:259]  
 10F: 28 October 1958 [Silwood Park, near Ascot, Berkshire. LondonHets] 29 October 1959 [Silwood Park, Sunninghill, Ascot, Berkshire. Nymphs. EMM95:89]  
 11C: 11 November 1958 [Silwood Park, Sunninghill, Ascot, Berkshire. Males. EMM95:89]  
 11E: 24 November 1958 [Silwood Park, Sunninghill, Ascot, Berkshire. Female macropter. EMM95:89]

*Xylocoris cursitans* (Fallén) (Anthocoridae)

- 01C: 14 January 1884 [Headley Lane. EMM21:24]  
 02A: 4 February 1927 [Mickleham Downs, Surrey. LondonHets]  
 02E: 24 February 1985 [Lineover Wood, Gloucestershire. GloucsHets] 25 February 1954 [Speech House, Gloucestershire. GloucsHets]  
 02F: 27 February 1934 [Esher Common, Surrey. PTSLENHS1934-35:7]  
 03D: 16 March 1993 [Higginsmoor Wood, Lanhydrock Estate, East Cornwall. BJENH7:36]  
 03E: 24 March 1990 [Short Wood, Crickley Hill, Gloucestershire. GloucsHets]  
 03F: 29 March 1987 [Campden Ashes, Springhill, Gloucestershire. GloucsHets] 27 March 1921 [Cut Mill, Godalming, Surrey. LondonHets] 30 March 1989 [Shobrooke Park, South Devon. BJENH4:119-121]  
 04A: 1 April 2014 [Bawsey Country Park, VC28. Hem4:39] 1 April 1918 [Letchworth, Hertfordshire. LondonHets] 4 April 1937 [Sevenoaks, Kent. LondonHets]  
 04B: 9 April 1949 [Ashted, Surrey. LondonHets] 9 April 1931 [Mickleham, Surrey. LondonHets]  
 04E: 24 April 1954 [Oxshott, Surrey. PTSLENHS1954-55:78-79]  
 04F: 29 April 1960 [Epping Forest, Essex. LondonHets] 30 April 1951 [Esher Common, Surrey. LondonHets] 28 April 1960 [Westerham, Kent. LondonHets]  
 05B: 7 May 1994 [Roslin Glen, near Edinburgh. EMM137:76]  
 05E: 22 May 1991 [Mungden Wood, near Hurley, Berkshire. EMM130:65-66]  
 06C: 11 June 1994 [Aldbury Common, Hertfordshire. BJENH8:91-92] 15 June 1952 [Chingford, Epping Forest, Essex. Nymphs. LondonHets] 13 June 1909 [Coulsdon Common, Surrey. Female. LondonHets] 14 June 1987 [Lydney Deer Park, Gloucestershire. GloucsHets]  
 06E: 24 June 1989 [Boconnoc Park, East Cornwall. BJENH6:97-101] 21 June 1955 [Bookham Common, Surrey. Adult and nymphs. LondonHets] 24 June 2009 [Botley Wood, VC11. Hem3:106] 22 June 1919 [Boxhill, Surrey. Male. LondonHets] 23 June 2018 [Burnham Beeches NNR. BJENH32:64-67] 22 June 2006 [Trelissick Estate, Cornwall. CornwallHets]  
 06F: 27 June 1989 [Lanhydrock Park, Cornwall. CornwallHets] 28 June 1925 [Westerham, Kent. Female. LondonHets]  
 07A: 1 July 1985 [Attingham Park, Shropshire. Hem5:156] 3 July 1990 [Killerton Park, South Devon. BJENH4:119-121] 4 July 1965 [Knowle Park, Kent. PTSLENHS1965:59-60] 3 July 1915 [Loughton, Epping Forest, Essex. LondonHets] 1 July 1922 [Westerham, Kent. LondonHets] 2 July 1922 [Westerham, Kent. LondonHets]  
 07B: 6 July 1990 [Knightshayes Park, South Devon. BJENH4:119-121]  
 07C: 14 July 1989 [Ethy Woods, East Cornwall. BJENH6:97-101] 15 July 1940 [Ranmore, Surrey. LondonHets]  
 07D: 19 July 1964 [Hatfield, Hertfordshire. LondonHets] 18 July 1987 [Sudeley Castle Park, Gloucestershire. GloucsHets]  
 07E: 25 July 1948 [Long Lane Pit, Tingrith, Bedfordshire. EMM86:6-8] 24 July 1944 [Oakley Wood, Gloucestershire. GloucsHets] 25 July 1959 [Westerham, Kent. LondonHets]  
 07F: 30 July 1990 [Arlington Park, North Devon. BJENH4:119-121] 27 July 1994 [Berth-lwyd Farm, Breconshire. Adults. BJENH9:3-5]  
 08A: 1 August 1942 [Epping Forest, Essex. LondonHets] 4 August 1963 [Hatfield, Hertfordshire. LondonHets]  
 08B: 6 August 1950 [Jordans, Buckinghamshire. LondonHets]  
 08C: 15 August 1964 [Epping Forest, Essex. LondonHets] 13 August 1991 [Fisgarths Wood, Clappergate, Westmorland. BJENH5:77]  
 08D: 17 August 1922 [Westerham, Kent. LondonHets]  
 08F: 26 August 1904 [Enfield, Middlesex. Female. LondonHets] 26 August 1984 [Haresfield Hill, Gloucestershire. GloucsHets]  
 09A: 4 September 1993 [Ruddle Marsh, Gloucestershire. GloucsHets]  
 09B: 10 September 1986 [Park & Estate, Wimpole, VC29. Hem4:144]  
 09C: 15 September 1921 [Westerham, Kent. LondonHets]  
 09D: 18 September 1985 [Ebworth Woods, Gloucestershire. GloucsHets]

- 09E: 22 September 1917 [Epping Forest, Essex. Adults and nymphs. LondonHets] 25 September 1960 [Joyden's Wood, Bexley, Kent. LondonHets] 23 September 1989 [Newland Brakes area of Ashclyst Forest, South Devon. BJENH4:119-121]  
 09F: 27 September 1964 [Hatfield, Hertfordshire. LondonHets]  
 10A: 1 October 1955 [Boxhill, Surrey. LondonHets] 1 October 1911 [Wytham Park, near Oxford. Macropters and brachypters. EMM47:278]  
 10B: 10 October 1965 [Banstead, Surrey. PTSLENHS1966:34] 8 October 1944 [Marians Encl., Dean, Gloucestershire. GloucsHets] 6 October 1991 [Short Wood, Crickley Hill, Gloucestershire. GloucsHets]  
 10C: 15 October 1943 [Northwood, Middlesex. LondonHets]  
 11B: 8 November 1996 [Grafham Caravan Park, VC31. ERJV109:98-100]  
 12A: 1 December 1991 [Edgeworth/Juniper Bank, Gloucestershire. GloucsHets]

*Xylocoris flavipes* Reuter (Anthocoridae)

- 04A: 4 April 1928 [Metro Warf, Wapping, Essex. LondonHets]

*Xylocoris formicetorum* (Boheman) (Anthocoridae)

- 03C: 11 March 1922 [Westerham, Kent. LondonHets]  
 05D: 18 May 1909 [Nethy Bridge. AntGuests]  
 06B: 10 June 1911 [Rannoch. Adults and nymphs. AntGuests]  
 07D: 19 July 1907 [Rannoch. AntGuests] 18 July 1922 [Westerham, Kent. LondonHets]  
 08F: 26 August 1922 [Westerham, Kent. LondonHets]  
 09B: 10 September 1921 [Westerham, Kent. LondonHets]  
 09D: 17 September 1921 [Westerham, Kent. Nymphs. AntGuests]  
 10D: 16 October 1921 [Westerham, Kent. Adults and nymphs. LondonHets]

*Xylocoris galactinus* (Fieber) (Anthocoridae)

- 01C: 13 January 1947 [Crief, Central Perthshire. EMM87:45-52]  
 03E: 24 March 1947 [Crief, Central Perthshire. EMM87:45-52]  
 04C: 13 April 1949 [Woking, Surrey. LondonHets]  
 05C: 11 May 1954 [Ardington, Berkshire. EMM93:121-126]  
 06B: 8 June 1907 [Shirley, Surrey. Males and females. LondonHets]  
 06C: 12 June 2003 [Alver Valley, VC11. Hem6:234]  
 06D: 18 June 1951 [West End Common, Esher, Surrey. LondonHets]  
 06F: 29 June 1953 [Black Hills, Esher, Surrey. LondonHets] 29 June 1953 [Esher Common, Surrey. LondonHets]  
 07B: 8 July 1989 [Car-park, Wicken Fen, VC29. Hem4:144]  
 07D: 16 July 1922 [Otford, Kent. LondonHets]  
 07E: 24 July 1959 [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. LondonHets]  
 07F: 30 July 1951 [West End Common, Esher, Surrey. LondonHets]  
 08B: 6 August 1947 [Cardington, near Bedford. PRESL(A)24:128-130] 7 August 2008 [Whitecross Green Wood, Oxfordshire/Buckinghamshire. BJENH27:11-12] 6 August 1941 [Wimbledon Common, Surrey. LondonHets]  
 08C: 11 August 1937 [Harpenden, Hertfordshire. LondonHets] 14 August 1949 [Highgate, Middlesex. LondonHets] 13 August 1950 [Salisbury, Wiltshire. EMM88:45] 15 August 1922 [Westerham, Kent. LondonHets]  
 08D: 20 August 1955 [Between Amersham and Aylesbury, Buckinghamshire. LondonHets] 19 August 1947 [Cardington, near Bedford. PRESL(A)24:128-130]  
 08F: 29 August 1937 [Boxhill, Surrey. Female. LondonHets] 27 August 1905 [Darenth Wood, Kent. LondonHets]  
 09A: 1 September 1962 [Bookham Common, Surrey. LondonHets] 1 September 1903 [Plumstead Marshes, Kent. Males and females. LondonHets]

- 09C: 13 September 1948 [Ashtead, Surrey. LondonHets] 13 September 1915 [Cheshunt, Hertfordshire. LondonHets] 14 September 1944 [Hammerton Farm, N. Cerney, Gloucestershire. GloucsHets] 12 September 1910 [Waltham Abbey, Essex. LondonHets]  
 09D: 16 September 1992 [Glendurgan Gardens, Cornwall. CornwallHets] 16 September 1993 [Glendurgan Gardens, West Cornwall. BJENH13:106-107] 18 September 2016 [Sweeney Fen, Shropshire. Hem5:156]  
 09E: 25 September 1948 [Ashtead, Surrey. LondonHets] 23 September 1916 [Mill Hill, Middlesex. LondonHets]  
 10A: 2 October 1895 [Lewisham, Kent. LondonHets] 2 October 1910 [Takeley, near Bishop's Stortford, Essex. LondonHets]  
 10B: 10 October 1965 [Banstead, Surrey. PTSLENHS1966:34] 7 October 1952 [Black Hills, Esher, Surrey. LondonHets]  
 10C: 15 October 1944 [Sundon, Bedfordshire. EMM81:183-185]  
 10F: 31 October 2015 [Garden, New Costessey, VC27. Hem4:42]  
 12A: 3 December 1946 [Crief, Central Perthshire. EMM87:45-52]  
 12D: 16 December 1946 [Crief, Central Perthshire. EMM87:45-52]

### Detailed records

#### *Acompocoris alpinus* Reuter (Anthocoridae)

- Sweeping [Witley Common, Surrey. 10 July 2011. Hem6:244]  
 Beating fir trees [Barnby Broad, Suffolk. 2 August 1904. SuffolkHets]  
 Beating *Abies* in the outer row of a spruce plantation [Near Beaconsfield, Buckinghamshire. 9 August 1955. EMM92:47-48]  
 Spruce [Amersham, Buckinghamshire. 23 September 1951. EMM90:250]  
 On Scotch firs [Battle/Dallington Forest, East Sussex. August 1881. EMM18:113]  
 On *Picea abies* [Bedfordshire. August 1960. EMM97:32-33]  
 On Scotch fir [Britain. Butler1923]  
 On Scotch firs [Neighbourhood of Hurst Green, Sussex. August 1882. EMM19:115-116]  
 Beating Douglas Fir in a garden [Newton Abbot, South Devon. August 1937. EMM74:20-21]  
 On Scotch Fir [Norfolk. EMM25:446-447]  
 Firs [Scotland. June. EMM23:43-44]  
 Off Scots pine [Southbourne, Hampshire. 1922. EMM74:20-21]  
 Beating pine [Wisley, Surrey. May 1916. LondonHets]

#### *Acompocoris pygmaeus* (Fallén) (Anthocoridae)

- On pine [Brockenhurst, New Forest. 2 July 1950. PTSLENHS1950-51:71-72]  
 On pines [Byfleet, Surrey. 8 July 1950. PTSLENHS1950-51:72-73]  
 Beating screening hedge [May's Bounty, Basingstoke, VC12. 9 July 2016. Hem6:230]  
 On pines [Shirley, Surrey. 13 July 1912. LondonHets]  
 On Scots pine (*Pinus sylvestris*) [Cranborne, Dorset. 20 July 1960. EMM96:152]  
 On *Pinus sylvestris* [Sharpenhoe Clappers, Bedfordshire. 4 August 1960. EMM97:32-33]  
 On *Pinus sylvestris* [Haynes, Bedfordshire. 8 August 1960. EMM97:32-33]  
 On *Pinus sylvestris* [Millbrook, Bedfordshire. 8 August 1960. EMM97:32-33]  
 On *Pinus sylvestris* [Markway Enclosure, near Lyndhurst, New Forest. 11 August 1986. Adults and nymphs. EMM130:77-79]  
 Sweeping [Blackheath and Farley Heath, Surrey. 30 August 1936. PTSLENHS1936-37:35-36]  
 Aerial netting at 250 ft over a grassy sports field [Cardington, near Bedford. 27 August 1947. PRESL(A)24:128-130]  
 On Scots pine [Kilruddery, Co Wicklow. 26 August 1927. IrelandHets]  
 Beating spruce [Barton Mills/Tuddenham, Suffolk. 19-22 April 1935. Female. EMM71:141-142]  
 On Scotch firs [Battle/Dallington Forest, East Sussex. August 1881. EMM18:113]  
 On *Pinus sylvestris* [Berkhamsted Common, Hertfordshire. August 1936. LondonHets]  
 On Scotch fir [British Isles. Butler1923]  
 In a suction trap [Cardington, Bedfordshire. August 1955. Females. TRESL112:173-220]

Beating Scots Fir [Cumberland. 1916. EMM53:112-113]  
 On oak [Grounds of Buckingham Palace. Adult. PTSLENHS1963Part2:75-98]  
 On pine and spruce [Isle of Rhum. 1961-63. TSBE18:91-167]  
 From Scots Pine [Neighbourhood of St Bees, Cumberland. 8-26 August 1924. EMM61:115-117]  
 In a suction trap [Rothamsted Experimental Station, Harpenden. 1954. Male. TRESL112:173-220]  
 Beating Scotch Fir [Southbourne district, Hampshire. July 1922. EMM58:231]  
 On fir trees [Suffolk. 1904. SuffolkHets]  
 Beating pine [West Wickham Wood, Kent. June 1894. LondonHets]  
 Beating pine and birch in woods [Westmoreland. July 1954. TSBE15:117-134]

*Amphiareus constrictus* (Stål) (Anthocoridae)

In a garden [Blackheath, London. 30 September 1955. S&L1959]  
 From piles of dead grass and vegetable debris in a garden [Blackheath, London. Autumn 1955.  
 Adults and nymphs. EMM92:229-230]

*Anthocoris amplicollis* Horváth (Anthocoridae)

From young ash trees [Ashberry, near Helmsley, North Yorkshire. 15 June 1980. EMM118:111-112]  
 On Larch (*Larix*) [Along a footpath to Long Meadow, Wootton, Oxfordshire. 25 July 2009. Hem4:48]  
 From young ash trees [Ashberry, near Helmsley, North Yorkshire. 9 August 1980. EMM118:111-112]  
 Beating ash at woodland edge [Brandon, VC26. 19 August 2014. Hem3:96]  
 From ash trees (*Fraxinus excelsior*) [Lowna, near Kirkbymoorside, North Yorkshire. 25 August 1979. EMM118:111-112]  
 From young ash trees [Riccal Dale, near Helmsley, North Yorkshire. 23 August 1980. EMM118:111-112]  
 On low growth of oak at edge of mixed deciduous wood [Riddlesdown, Surrey. 21 September 1995. BJENH16:186]

*Anthocoris butleri* Le Quesne (Anthocoridae)

In flight [Broadway, Worcestershire. 2 April 1987. EMM129:60]  
 On Box [Snowhill, VC33. 27 August. HN15:13]  
 Beating Box bushes [Box Hill, Surrey. 19 September 1994. EMM133:79-80]  
 Off box [Wood Bevington/Cock Bevington, VC38. 5 October 2009. Hem3:96]  
 Off box [Hunstanton Park, VC28. 20 November 2014. Hem3:96]  
 In a garden, on a box hedge, on fruit trees, and sweeping [Blackheath, London. August 1957. EMM94:180]  
 From *Buxus* [Box Hill, Surrey. EMM90:36-40]

*Anthocoris confusus* Reuter (Anthocoridae)

Under bark [Shoreham, Kent. 11 February 1961. LondonHets]  
 Under sycamore bark [Eynsford, Kent. 28 February 1959. LondonHets]  
 On sallows [Effingham, Surrey. 11 April 1936. LondonHets]  
 From sands along the seashore [Deal, Kent. 7 May 1961. PTSLENHS1961:75-76]  
 Hawthorn [Trevesa Farm, Cornwall. 14 May 1996. CornwallHets]  
 Off oak [Valency Valley, Cornwall. 17 May 1990. CornwallHets]  
 In spathe of *Arum maculatum* [Farningham Wood, Kent. 27 May 1960. Male. LondonHets]  
 Sweeping bilberry under oak [Hurt Wood, Surrey. 3 June 1967. PTSLENHS1967:90-92]  
 In clearing on sandy heath [Hampstead Heath, Middlesex. 8 June 1950. LondonHets]  
 On sand-hills [Culbin sand-hills, Moray Firth. 21 June 1951. EMM87:255]  
 Beating an oak [Pound Street, VC12. 25 June 2015. Hem3:54]  
 Along a bridleway and dismantled railway line [SU473592, VC12. 25 June 2015. Hem3:54]  
 From Oak (*Quercus*) [Cowleaze Wood, Chiltern Hills, Oxfordshire. 4 July 2016. Nymph reared in culture. Hem4:126]

- On *Malus sylvestris* [Trawscoed, Cardiganshire. 7 July 1950. Female. EMM92:54-64]  
 On willow and beech [Little Missenden, Buckinghamshire. 13 July 1952. LondonHets]  
 On ash and maple [Chesham, Buckinghamshire. 19 July 1952. LondonHets]  
 On oak [Latimer, Buckinghamshire. 19 July 1952. LondonHets]  
 On sallow [Latimer, Buckinghamshire. 20 July 1952. LondonHets]  
 In a wood [The Chase, Broad Layings, VC12. 17 July 2015. Hem3:54]  
 Beating apple trees growing amid rough, uncut grass and weeds [Grounds of the Pest Infestation Laboratory, Slough, Buckinghamshire. 26 July 1955. EMM92:35]  
 Sweeping [Torrinch, Dumbartonshire. 3 August 1967. EMM114:21-24]  
 On oak [Plumstead, Kent. 15 August 1896. LondonHets]  
 Haymeadow [Highgrove House, Gloucestershire. 17 August 1995. GloucsHets]  
 Inside a leaf gall on Red Valerian (*Centranthus ruber*) [Hampton, Herne Bay, Kent. 25 August 2016. Adult. BJENH30:78]  
 Off oak [South Penquite Farm, Cornwall. 23 August 2005. CornwallHets]  
 Sweeping *Urtica/Rubus* by a path [Inchcailloch, Stirlingshire. 3 September 1966. EMM114:21-24]  
 Beating [Shoreham, Kent. 1 September 1961. LondonHets]  
 On oak and elm [Amersham, Buckinghamshire. 14 September 1952. LondonHets]  
 Sweeping [Plumstead, Kent. 20 September 1894. LondonHets]  
 On *Quercus petraea* and *Corylus avellana* [Tregaron Bog, Cardiganshire. 2 October 1954. Males and females. EMM92:54-64]  
 Under flaking sycamore bark [Tilburstow Hill, Godstone, Surrey. 7 November 1959. LondonHets]  
 On spruce [Amersham, Buckinghamshire. 11 November 1951. LondonHets]  
 In a garden, on a beech hedge [Blackheath, London. EMM94:180]  
 Frequents trees, especially oak [Britain. Butler1923]  
 In a suction trap [Cardington, Bedfordshire. August 1955. Female. TRESL112:173-220]  
 Sweeping rank weeds in an old walled garden [Castle of Kinloch, Isle of Rhum. 1963. TSBE18:91-167]  
 Beneath tree bark [Cumberland. Winter 1916. EMM53:112-113]  
 Overwintering adults in ground litter and under the bark of *Acer pseudoplatanus*, *Pinus sylvestris* and *Ulex europaeus*. Ova inserted in petioles and stems of the current year's growth, the long axis of the egg parallel to the petiole or stem (twig) [Drymen, Stirlingshire. 1961-64. Adults. TSBE16:245-256]  
 On oak (*Quercus*), *Fagus sylvatica*, *Betula pendula*, *Sorbus acuparia*, *Alnus glutinosa*, *Crataegus monogyna*, *Ulmus glabra*, *Salix*, *Acer pseudoplatanus*, *Pinus sylvestris*, *Ulex europaeus*, *Sarothamnus scoparius*, *Myrica gale*, herbaceous plants of hedgerows and ground cover of woods, and cultivated plants such as wheat, oats, potatoes and raspberries [Drymen, Stirlingshire. 1961-64. TSBE16:245-256]  
 Observed in the field consuming Psocoptera [Drymen, Stirlingshire. Spring. TSBE18:35-48]  
 On bushes [Dumfriesshire. 1935. EMM72:96]  
 From cultivated raspberries [East of Scotland. EMM88:51-62]  
 On oak [Epping Forest, Essex. LondonHets]  
 In the gizzard of Coal Tit [Forest of Dean, Gloucestershire. 1948-1951. Adult. EMM92:68-71]  
 On birch [Grounds of Buckingham Palace. PTSLENHS1963Part2:75-98]  
 On trees [Hampstead Heath. PTSLENHS1949-50:36-38]  
 On mature oaks [Hartlebury Common LNR, Worcestershire. EMM133:17-26]  
 Sweeping riverside vegetation [Hounslow Heath, Middlesex. 1952. Ent86:34-40]  
 From apple, broom, *Salix*, lime, sycamore, hawthorn, elm, oak, beech, ash, birch and nettle. It is semi-restricted in its breeding sites; over 90% of the larvae were collected from the aphid-infested trees, beech, oak, lime and sycamore. It emerges from overwintering in mid to late March and starts to oviposit in early May. Larvae are present from the end of May until mid-August; these are predominantly all of one generation but a few of the earliest adults that mature in June oviposit, so there is a small second generation. Most adults enter hibernation in late August or September, but some are active until October. A favoured hibernation site is under bark scales of sycamore [Imperial College Field Station, Silwood Park, Ascot, Berkshire. 1959-1960. TRESL114:67-95]

In old bird's nest [Letchworth, Hertfordshire. March 1924. Adults. LondonHets]  
 On nettles [Neighbourhood of St Bees, Cumberland. 8-26 August 1924. EMM61:115-117]  
 From oak [Newtown Nature Reserve, Isle of Wight. June 1971/1973. EMM110:122]  
 From naturally-vegetated derelict sites [North-west England. 1987-88. EG43:221-226]  
 In a light trap [Rothamsted Experimental Station, Harpenden. 1933. Males. PRESL(A)13:19-24]  
 In a light trap [Rothamsted Experimental Station, Harpenden. 1934. Male. PRESL(A)13:19-24]  
 In a light trap [Rothamsted Experimental Station, Harpenden. 1936. Male. PRESL(A)13:19-24]  
 Sweeping [Rothamsted Experimental Station, Harpenden. 1954. Males and females. TRESL112:173-220]  
 In a light trap [Rothamsted Experimental Station, Harpenden. Male and female. TRESL112:173-220]  
 In a suction trap [Rothamsted Experimental Station, Harpenden. Males and females. TRESL112:173-220]  
 Beating *Quercus*, *Crataegus*, *Sorbus*, *Sarothamnus*, *Fagus* and *Betula* in a wood [Scotland. 1963. Adults. EMM113:139-146]  
 In Malaise trap in birch woodland [Silwood Park, Sunninghill, Berkshire. 1991. BJENH20:49-55]  
 Beneath pine bark [Suffolk. Winter. SuffolkHets]  
 Destroying eggs of the sawfly *Nematus piliserra* [Surrey. TSBE10:45-142]  
 On alder [West Wickham Wood, Kent. 1894. LondonHets]  
 Beating oak, hazel, ash, sycamore, pine and birch in woods [Westmoreland. July 1954. TSBE15:117-134]  
 On oaks [Windsor Great Park, Berkshire. EMM96:17]  
 Attacking hop leaves, doing much harm. Occasionally feed upon 'hop lice' [Wye Court, near Ashford. EMM32:60-62]

*Anthocoris gallarumulmi* (De Geer) (Anthocoridae)

Under dead bird on path [Dunstable, Bedfordshire. 5 June 1944. EMM81:183-185]  
 In elm leaf galls [NW8 (= St John's Wood), Middlesex. 10 June 1952. Nymphs. LondonHets]  
 On elm hedges [Kidbrooke Lane, Kent. 18 July 1896. LondonHets]  
 On elm hedges [Kidbrooke Lane, Kent. 25 July 1896. LondonHets]  
 On elm [Glenageary, Co Dublin. 26 July 1933. IrelandHets]  
 Beating apple trees growing amid rough, uncut grass and weeds [Grounds of the Pest Infestation Laboratory, Slough, Buckinghamshire. 26 July 1955. EMM92:35]  
 On elm [Glenageary, Co Dublin. 19 August 1933. IrelandHets]  
 On apple [Chesham, Buckinghamshire. 5 September 1964. LondonHets]  
 On elm and sloe [Amersham, Buckinghamshire. 14 September 1952. LondonHets]  
 On ash trunk [Stevington Wood, Bedfordshire. 22 September 1946. EMM86:6-8]  
 In dead ivy stem [Tilsworth, Bedfordshire. 23 October 1944. EMM81:183-185]  
 On box [Boxhill, Surrey. July 1900. LondonHets]  
 On elm [British Isles. Butler1923]  
 On Wych elm (*Ulmus montana*) around cracks in bark leading to holes of the bark beetle *Scolytus scolytus* [Buckhurst Hill, Epping Forest, Essex. August/September 1947. LondonHets]  
 From cultivated raspberries [East of Scotland. EMM88:51-62]  
 On elm [Grounds of Buckingham Palace. PTSLENHS1963Part2:75-98]  
 On trees [Hounslow Heath, Middlesex. 1952. Ent86:34-40]  
 From broom, *Salix*, sycamore, elm, oak, beech and nettle. It breeds in the curled leaf-galls formed by *Eriosoma ulmi* on elm. It emerges from hibernation in mid-April and oviposits during May, when the aphid galls are forming. Larvae were present only from late May until early July in 1960. There is a single generation per year. The adults disperse from elm during June and July and can be collected sporadically from other trees until August [Imperial College Field Station, Silwood Park, Ascot, Berkshire. 1959-1960. TRESL114:67-95]  
 In the rolled leaf galls of the psyllid *Psyllopsis fraxini* from an ash hedge in a garden [Lancaster. July. EMM107:11-12]  
 In association with Aphides in curled-up elm leaves [Leicestershire. August 1926. EMM63:42]

Within the curled leaf-galls of the Common Elm (*Ulmus procera*). Eggs found in June, laid in the main rib of large leaves, i.e. those fully grown at the time of oviposition, nearly at right angles to the surface [London, NW8. 1953. All stages. EMM90:99-102]  
 Beating hedgerows and overwintering in an old garden shed [Lymington, Hampshire. HantsHets]  
 In a suction trap [Rothamsted Experimental Station, Harpenden. Female. TRESL112:173-220]  
 Overwintered adults emerged in late April/May and could be found on a number of early flowering tree species, before congregating on elm (*Ulmus*) in late May/June. Overwintered females emerged already mated. Ova were deposited only in close association with leaf roll-galls of the aphids *S. ulmi* and *S. patchae*. The emerged nymphs' diet was almost exclusively these aphids. Intergall migration was characteristic of post second instar larvae, which resulted in the concentration of fifth instar larvae and adults in a limited number of galls. It was during this period of local high population density that mating occurred. Adults left elm within 14 days of imaginal ecdysis and thereafter, until overwintering, were recorded in only very low numbers from a range of tree, shrub and herb species. Overwintering adults selected as hibernacula the bark of four tree species but principally *Acer pseudoplatanus* and *Quercus robur*. Mortality among males surviving to spring emergence was 67% [University of Glasgow's Garscube Estate, West Central Scotland. 1973-1975. Adults. EcolEnt9:55-67]  
 In woods [Westmoreland. July 1954. TSBE15:117-134]  
 On elm growing in a hedge [Yatesbury, Wiltshire. September 1962. EMM98:263]

*Anthocoris limbatus* Fieber (Anthocoridae)

On willow [Chesham, Buckinghamshire. 19 July 1952. LondonHets]  
 From White Willow/Osier [Wilstone Reservoir, Hertfordshire. 17 August 2015. Adult. Hem3:124]  
 From sallows [Dungeness, Kent. 26 August 1958. EMM95:96]  
 Beating sallow. In culture, fed on green fly taken with it [Birling, Kent. September 1953. EMM90:96]  
 Beating sallows along a canal [Canal near Woodham, Surrey. September 1907. Males and females. EMM43:233]  
 Sweeping sallows in a marsh [Near Barnsley, Yorkshire. 1968. Male and females. Ent101:268]  
 In moss on tree trunks [Near Ross Castle, Lough Leane, Killarney district, North Kerry. February 1928. IrelandHets]  
 On willows on the shore of a lough [Near Ross Castle, Lough Leane, North Kerry. August. IrelandHets]  
 On sallow [Near Woking. August 1910. EMM47:94]

*Anthocoris minki* Dohrn (Anthocoridae)

Found inside a gall made by *Pemphigus bursaria* (Linnaeus) growing on Lombardy Poplar which was primarily infested with the spiral galls of *P. syrothecae* Passerini [Teynham, VC15. 2 June 2018. Adult. Hem6:222]  
 Sweeping [Morden Cemetery, London. 5 July 1998. ERJV112:185-186]  
 Beating a large Lombardy Poplar (*Populus nigra* 'italica') [Odiham Common, VC12. 2 July 2018. Females. Hem6:222]  
 Beating Lombardy Poplar [Green Park, London, VC21. 10 July 2018. Adults. Hem6:222]  
 On Lombardy Poplars (*Populus nigra* var *italica*) bearing abundant Pemphigus galls [Stewartby, VC30. 19 September 2006. Males, females and nymph. HN9:14]  
 From inside the galls of *Pemphigus spyrothecae* on the leaf petioles of Lombardy poplars [Wandsworth Common, Surrey. 22 September 2003. Nymphs. BJENH17:181-182]  
 From spiral, leaf petiole galls of Lombardy poplars [Forster memorial Park, Catford, SE London. 30 September 1999. BJENH14:185-194]  
 In Pemphigus aphid galls on Lombardy poplars along a towpath [Kew, Surrey. 28 September 1984. PTBENHS18:20]  
 On the arm of the author's jacket whilst collecting galls of Lombardy Poplar (*Populus nigra* var. *italica*) along a field margin. The 164 galls taken did not contain any of the bug [Near Long Wittenham, VC22. 29 September 2014. Hem3:111]

- In the galls of Lombardy Poplar (*Populus nigra* var. *italica*) by a roadside. 248 galls produced one adult and six nymphs [Steventon, VC22. 29 September 2014. Adult and nymphs. Hem3:111]
- In the galls of Lombardy Poplar (*Populus nigra* var. *italica*) by a roadside. 164 galls produced five adults and two nymphs [Sutton Courtney, VC22. 29 September 2014. Adults and nymphs. Hem3:111]
- In the galls of Lombardy Poplar (*Populus nigra* var. *italica*) in parkland. Two adults and six nymphs from 161 galls [University Parks, Oxford, VC23. 26 September 2014. Adults and nymphs reared in culture. Hem3:111]
- From petiole galls of Lombardy poplar along a footpath [Brough, SE Yorkshire. 1 September 2017. Adults and nymphs after a fortnight in storage. BJENH31:30]
- In *Pemphigus* galls on Lombardy poplar [Forster Memorial Park, Catford, London. ERJV112:185-186]
- From galls of *Pemphigus spirothecae* on *Populus italica* [Kew towpath, London. August 1980. Nymphs reared in culture. EMM119:221-223]
- From petiole galls of Lombardy poplar along a track [Near Pocklington, SE Yorkshire. 1 September 2017. Adults and nymphs after a fortnight in storage. BJENH31:30]
- From petiole galls of Lombardy poplar along a road verge [Near Roos, SE Yorkshire. 31 August 2017. Adults and nymphs after a fortnight in storage. BJENH31:30]
- From petiole galls of Lombardy poplar in a cemetery [Springbank, Hull, SE Yorkshire. 30 August 2017. Adults and nymphs after a fortnight in storage. BJENH31:30]

*Anthocoris nemoralis* (Fabricius) (Anthocoridae)

- In grass tuft [Ruxley Gravel Pit, Kent. 3 January 1965. LondonHets]
- From sallows [Effingham, Surrey. 7 April 1934. PTSLENHS1934-35:7-8]
- On *Crataegus oxyacantha*. In culture fed on aphids and larvae of *Pieris rapae* [Imperial College Biological Field Station, Slough, Buckinghamshire. 7 May 1933. TSBE2:47-67]
- Flying and settling on people [Great Orme, Gwynedd. 29 May 1999. EMM136:147]
- On birch and oak [South of Weavers Down, VC13. 31 May 2014. Hem6:231]
- Salix* [Morden Valley, Cotehele, Cornwall. 20 June 1989. CornwallHets]
- Beating scrub [Ruislip NR, Middlesex. 18 June 1957. LondonHets]
- In a wood [Beechen Wood, Lullingstone Park, Kent. 4 July 1970. LondonHets]
- On sallow in chalk-pit [Sewell, near Houghton Regis, Bedfordshire. 4 July 1944. EMM81:183-185]
- On hawthorn, willow and hazel [Amersham, Buckinghamshire. 6 July 1952. LondonHets]
- Wet valley bottom [Stowe Warren, Cornwall. 13 July 2006. CornwallHets]
- On willow [West Hyde, Hertfordshire. 12 July 1952. LondonHets]
- On *Salix alba* [Amersham, Buckinghamshire. 18 July 1954. LondonHets]
- On oak [Latimer, Buckinghamshire. 19 July 1952. LondonHets]
- On willow trunk [Boxmoor, Hertfordshire. 25 July 1946. EMM85:249-253]
- On oak and hawthorn [Burnham Beeches, Buckinghamshire. 31 July 1954. LondonHets]
- Beating apple trees growing amid rough, uncut grass and weeds [Grounds of the Pest Infestation Laboratory, Slough, Buckinghamshire. 26 July 1955. EMM92:35]
- From old blackcurrent plantation [Long Ashton Research Station, North Somerset. 31 July 1967. Male and female. Ent101:202-204]
- Suction sampling Ranunculaceae [Chelsea Physic Garden, Middlesex. 4 August 1981. PTBENHS16:50-52]
- On hawthorn [Chorley Wood, Hertfordshire. 1 August 1954. LondonHets]
- On hawthorn [Harefield, Middlesex. 8 August 1954. LondonHets]
- Beating/sweeping in a cemetery [North Petherton, VC5. 8 August 2019. Hem6:263]
- In moth trap [Grounds of Zoological Gardens, Regent's Park, Middlesex. 24 August 1952. LondonHets]
- Off *Salix* on hedge bank [South Penquite Farm, Blissland, Cornwall. 25 August 2005. CornwallHets]
- From sallows [Dungeness, Kent. 26 August 1958. EMM95:96]
- On willow [Harefield, Middlesex. 26 August 1951. LondonHets]

- From the edge of a wood [Hoyle's Mouth, Penally, Pembrokeshire. 27 August 1951. EMM88:22]  
 On *Salix purpurea* [Chesham, Buckinghamshire. 5 September 1953. LondonHets]  
 On elm [Amersham, Buckinghamshire. 14 September 1952. LondonHets]  
 On oak and ash [Amersham, Buckinghamshire. 20 September 1952. LondonHets]  
 On willows [Bride's Glen, Co Dublin. 18 September 1921. Dark form. IrelandHets]  
 In spruce cones [Little Chalfont, Buckinghamshire. 19 November 1951. LondonHets]  
 On *Salix* growing around a pond [Abbey Pond, Tresco, Isles of Scilly. June 1966. EMM102:285-286]  
 In *Buxus sempervirens* [Beacon, Hertfordshire. November 1935. LondonHets]  
 In a suction trap [Cardington, Bedfordshire. August 1955. Male. TRESL112:173-220]  
 On an *Aphis*-infested willow bush [Carmarthen. August. Butler1923]  
 Beneath tree bark [Cumberland. Winter 1916. EMM53:112-113]  
 On *Salix* [Drymen, Stirlingshire. Adults. TSBE16:245-256]  
 From cultivated raspberries [East of Scotland. EMM88:51-62]  
 Mistletoe [Elton Furze Farm, near Peterborough. EG20:125-135]  
 On broom fed selectively on psyllids rather than aphids [England. PRESL(A)42:107-118]  
 In the gizzard of Blue Tit [Forest of Dean, Gloucestershire. 1948-1951. Adult. EMM92:68-71]  
 On trees [Hampstead Heath. PTSLENHS1949-50:36-38]  
 Birch and oak [Hartlebury Common LNR, Worcestershire. EMM133:17-26]  
 On *Quercus*, *Crataegus* and *Prunus spinosa* [Hertfordshire. LondonHets]  
 From apple, broom, *Salix*, lime, sycamore, hawthorn, elm, oak, beech, ash and birch. It breeds primarily on Psyllid-infested trees, though the adults occur on a range of plants. It emerges from hibernation in mid to late March and aggregates especially on *Salix*, before dispersing to other trees. Spring-generation adults occur at the end of May or early June and most larvae have matured by the third week of June. The adults disperse to aphid-infested trees during post-teneral flights in June. A small second generation is produced, especially on lime. Most adults apparently enter hibernation in July and August, but a few are still present on trees in October [Imperial College Field Station, Silwood Park, Ascot, Berkshire. 1959-1960. TRESL114:67-95]  
 On willow [Isle of Rhum. 1960-63. TSBE18:91-167]  
 On aphid-infested willows (*Salix*) in woodland [Kinloch woodlands, Isle of Rhum, Inner Hebrides. 1960. Adults and nymphs. EMM96:144]  
 From juniper bushes [Lake District. EMM119:49]  
 On broom [Near Gartness village, Stirlingshire. TRESL113:41-54]  
 From willow in a salt marsh [Newtown Nature Reserve, Isle of Wight. June 1971/1973. EMM110:122]  
 From naturally-vegetated derelict sites [North-west England. 1987-88. EG43:221-226]  
 From naturally-vegetated derelict sites [NW England. 1987. Ent112:10-16]  
 In sandy places [Redhill, Surrey. LondonHets]  
 In a tidal saltmarsh [River Fal, Cornish coast. 1966. PTBENHS4:83-88]  
 On raspberries [Roebuck, Co Dublin. August 1917. Adult and nymph. IrelandHets]  
 In a suction trap [Rothamsted Experimental Station, Harpenden. Females. TRESL112:173-220]  
 Sweeping a large patch of nettles (*Urtica dioica*) [Rothamsted Experimental Station, Harpenden, Hertfordshire. 1953-1954. EMM92:313-325]  
 In a light trap in a wood [Rothamsted Manor, Harpenden. July 1949. Female. TRESL112:173-220]  
 Beating *Quercus*, *Crataegus*, *Sorbus*, *Sorothamnus*, *Fagus* and *Betula* in a wood [Scotland. 1963. Adults. EMM113:139-146]  
 In Malaise trap in birch woodland [Silwood Park, Sunninghill, Berkshire. 1991. BJENH20:49-55]  
 On sea buckthorn (*Hippophae rhamnoides*) [Spurn Head, Yorkshire. 24-26 July 1953. EMM90:40]  
 On nettles [Suffolk. SuffolkHets]  
 From trees [Valley of the North Tyne, between Wark and Bellingham. Early July 1918. EMM54:252-253]  
 Beating oak, hazel, wych elm, pine, willow and birch in woods [Westmoreland. July 1954. TSBE15:117-134]

*Anthocoris nemoralis/confusus* AMBIGUOUS (Anthocoridae)

From *Hippophae rhamnoides* on sandhills [Camber Sandhills. EMM21:19-20]

*Anthocoris nemorum* (Linnaeus) (Anthocoridae)

Under flaky sycamore bark [Polhill, Kent. 4 February 1962. LondonHets]

From a tussock of *Deschampsia caespitosa* growing under a hawthorn bush, three feet from the edge of a canal [Coombe Hill canal, East Gloucestershire. 28 February 1965. EMM103:184-186]

From tallows [Effingham, Surrey. 7 April 1934. PTSLENHS1934-35:7-8]

At Sallow blossom [Much Wenlock, Shropshire. 10 April 1955. EMM91:237]

Beating a hedge [King's Somborne, Hampshire. 28 April 1928. THES4:14-15]

From sands along the seashore [Deal, Kent. 7 May 1961. PTSLENHS1961:75-76]

Sweeping nettles (*Urtica dioica*) [Hertfordshire. 7 May 2004. Female. EcolEnt31:162-171]

On *Crataegus oxyacantha*. In culture fed on aphids [Imperial College Biological Field Station, Slough, Buckinghamshire. 8 May 1934. TSBE2:47-67]

Sweeping nettles (*Urtica dioica*) [Hertfordshire. 14 May 2004. Female. EcolEnt31:162-171]

On a blanket drying in a garden [Hale End, London E4, Essex. 17 May 1924. ERJV37:58-59]

On herbage in marsh [Near Houghton Regis, Bedfordshire. 18 May 1944. EMM81:183-185]

Sweeping nettles (*Urtica dioica*) [Hertfordshire. 24 May 2004. Female. EcolEnt31:162-171]

On *Urtica dioica* [Aberystwyth, Cardiganshire. 29 May 1955. Male. EMM92:54-64]

On the flowers of Mexican Orange (*Choisya ternata*) in a garden [Evesham, Worcestershire. 31 May 2005. EMM143:7-10]

Captured and devoured by a female Asilid fly, *Neoitamus cyanurus* [Pamber Forest. 30 May 1903. Butler1923]

On *Rubus idaeus* [Cardiganshire. 3 June 1950. Male and females. EMM92:54-64]

Sweeping a large patch of nettles (*Urtica dioica*) [Rothamsted Experimental Station, Harpenden, Hertfordshire. 16 June 1954. Nymph. EMM92:313-325]

Sweeping a large patch of nettles (*Urtica dioica*) [Rothamsted Experimental Station, Harpenden, Hertfordshire. 17 June 1953. Nymph. EMM92:313-325]

Sweeping a large patch of nettles (*Urtica dioica*) [Rothamsted Experimental Station, Harpenden, Hertfordshire. 18 June 1951. Nymph. EMM92:313-325]

On stinging nettles [Northward Hill NNR, Kent. 25 June 1977. PTBENHS11:67-68]

On *Lotus* on chalky bank [Puddlehill, Houghton Regis, Bedfordshire. 22 June 1944. EMM81:183-185]

Along a bridleway and dismantled railway line [SU473592, VC12. 25 June 2015. Hem3:54]

In a wood [Beechen Wood, Lullingstone Park, Kent. 4 July 1970. LondonHets]

On sallow in chalk-pit [Sewell, near Houghton Regis, Bedfordshire. 4 July 1944. EMM81:183-185]

In an old *Brassica* seedbed overgrown with weeds [Starcross, South Devon. 5 July 1944. Ent88:89-91]

Biting a man in a garden, sucking blood for two-three minutes [Monk Soham House, Suffolk. 7 July. Ent47:215-218]

On *Malus sylvestris* [Trawscoed, Cardiganshire. 7 July 1950. Females and nymphs. EMM92:54-64]

On marsh herbage [Broom, Bedfordshire. 20 July 1947. EMM86:6-8]

On *Urtica dioica* [Derwenlas, Montgomeryshire. 20 July 1955. Males, female and nymph. EMM92:54-64]

Trying and failing to feed on a dead female aphid *Siphonophora rosae*, parasitised by a *Aphidius* larva, on rambler roses in a garden [Monk Soham House, Suffolk. 18 July. Nymph. Ent49:246-248]

Beating willow [Near Silsoe, Bedfordshire. 17 July 1954. EMM91:283]

Sweeping in a row of planted willow trees [Boxmoor, Hertfordshire. 25 July 1946. EMM85:249-253]

On *Urtica dioica* [Cardiganshire. 21 July 1950. Male. EMM92:54-64]

On sallow [Gravesend, Kent. 21 July 1948. LondonHets]

- Beating apple trees growing amid rough, uncut grass and weeds [Grounds of the Pest Infestation Laboratory, Slough, Buckinghamshire. 26 July 1955. EMM92:35]
- Suction sampling various plants [Chelsea Physic Garden, Middlesex. 4 August 1981. PTBENHS16:50-52]
- Sweeping lush vegetation [Creinch, Dumbartonshire. 4 August 1967. EMM114:21-24]
- Sweeping [Leigh, near Reigate, Surrey. 5 August 1950. LondonHets]
- Sweeping low vegetation [Torrinch, Dumbartonshire. 3 August 1967. EMM114:21-24]
- Sweeping lush vegetation [Aber Isle, Dumbartonshire. 8 August 1967. EMM114:21-24]
- Sweeping [Clairinsh, Stirlingshire. 6 August 1967. EMM114:21-24]
- On *Urtica dioica* [Kingsheath, near Northampton. 9 August 1955. Nymphs. EMM92:21]
- Aerial netting at 50 ft over a grassy sports field [Cardington, near Bedford. 14 August 1947. PRES�(A)24:128-130]
- Sweeping [Highham Marshes, Kent. 12 August 1962. PTSLENHS1962:97-98]
- On strawberry [Luton, Bedfordshire. 14 August 1945. EMM86:6-8]
- On *Chrysanthemum* leaves [Luton, Bedfordshire. 14 August 1945. Nymph. EMM86:6-8]
- Aerial netting at 50 ft over a grassy sports field [Cardington, near Bedford. 22 August 1947. PRES�(A)24:128-130]
- On aspen [Hodgemoor Wood, Buckinghamshire. 30 August 1952. LondonHets]
- From the edge of a wood [Hoyle's Mouth, Penally, Pembrokeshire. 27 August 1951. EMM88:22]
- On a sea wall [Seasalter, near Whitstable, north-east Kent. 28 August 1958. ERJV71:217-220]
- Biting recorder [Horley, Surrey. 10 September 1926. LondonHets]
- On Compositae flower heads [SW18 (=Wandsworth), Surrey. 7 September 1958. LondonHets]
- Beating an ornamental cypress (*Cupressus macrocarpa* 'Goldcrest') in a garden [Mossley Hill, Liverpool. 13 September 2002. EMM141:248]
- On birch [Shirley Common, Surrey. 14 September 1895. LondonHets]
- Tapping the overhanging thatch of a large compost heap in partial tree shade beside a car park [Glendurgan Gardens, West Cornwall. 16 September 1993. BJENH13:106-107]
- Beating scrub [Mitcham Common, Surrey. 19 September 1983. LondonHets]
- Beating scrub [Mitcham Common, Surrey. 20 September 1983. LondonHets]
- On *Populus* [Carshalton Beeches railway station, Surrey. 25 September 1953. LondonHets]
- Beating vegetation clumps growing on a sea cliff [Porthallow, West Cornwall. 23 September 1993. BJENH13:106-107]
- On ivy flowers in a small orchard [Boxmoor, Hertfordshire. 30 September 1946. EMM85:249-253]
- On oak [Leighton Buzzard Pits, Bedfordshire. 29 September 1945. EMM86:6-8]
- On willow [Mitcham Common, Surrey. 26 September 1983. LondonHets]
- On poplar [Mitcham Common, Surrey. 28 September 1983. LondonHets]
- On a cultivated leek (*Allium porrum*) [Midlands. 5 October 2009. Adult and exuvium. EMM146:36]
- On *Quercus petraea*, *Corylus avellana* and *Urtica dioica* [Tregaron Bog, Cardiganshire. 2 October 1954. Males and females. EMM92:54-64]
- On a river wall [River Thames, Belvedere, Kent. 12 October 1984. ERJV101:47-49]
- Feeding on Psyllids on *Urtica* in chalk-pit [Houghton Regis, Bedfordshire. 1 November 1944. EMM81:183-185]
- On fungus [Benfleet, Essex. 12 December 1937. LondonHets]
- Inside a fallen walnut [Grounds of the Royal Botanic Gardens, Kew, Surrey. 14 December 1958. LondonHets]
- On *Salix* growing around a pond [Abbey Pond, Tresco, Isles of Scilly. June 1966. EMM102:285-286]
- In culture, ran about with the rostrum extended in front and spearing nymphs of the beech aphid (*Phyllophis fagi*), taken with it [Ashted, Surrey. Nymphs. PSLENHS1914-15:100]
- On nettles [Bardsey Island, Caernarvonshire. 1968-71. EG25:45-51]
- Suction sampling derelict grassy area [Battersea Park, London, Surrey. 2002. BJENH17:39-44]
- In a house [Bayswater. EMM28:230-232]
- In a garden, on a box hedge [Blackheath, London. EMM94:180]

On ash [Boxhill, Surrey. September 1909. LondonHets]  
On hops [Canterbury. PESL1880:xxix-xxx]  
In a suction trap [Cardington, Bedfordshire. August 1955. Males and females. TRESL112:173-220]  
On fir trees [Carmarthen. March 1910. Butler1923]  
Prey of adult female Wolf Spider (*Lycosa lugubris*) [Central Scotland. April 1965. Female. EMM106:71-73]  
Prey of adult female Wolf Spider (*Lycosa lugubris*) [Central Scotland. August 1966. Female. EMM106:71-73]  
On raspberry [Chesham, Buckinghamshire. 1952-53. LondonHets]  
On vegetation colonising a derelict bombed site [Cripplegate, Middlesex. 1955. Adults and nymphs. LondonHets]  
Beneath tree bark [Cumberland. Winter 1916. EMM53:112-113]  
From demolition sites [Derby. 1982. EMM120:253-258]  
Sucking out eggs of *Metatropis rufescens* [Devon/Cornwall. Adults and nymphs. Ent88:89-91]  
On *Salix* and *Quercus* [Drymen, Stirlingshire. Adults. TSBE16:245-256]  
On apple blossoms [Dundalk, Louth. June 1914. IrelandHets]  
Eggs laid singly and partially embedded in the lower epidermis of plum leaves badly attacked by *Oligonychus ulmi*. Hatched in culture to confirm identity [East Malling Research Station, Kent. August 1928. Eggs. EMM65:103-104]  
Overwinters under moss and loose bark, in crevices and in rubbish on the ground [East Malling Research Station, Kent. Adults. EMM65:103-104]  
Observed on *Rubus* to attack the aphid *Amphorophora rubi*; and the jassids *Typhlocyba tenerrima*, *T. ulmi* and *Empoasca flavescens* [East Malling Research Station, Kent. EMM65:103-104]  
On hops feeding on Aphids and *Tetranychus telarius* [East Malling Research Station, Kent. EMM65:103-104]  
On raspberries, loganberries and other species of *Rubus* [East Malling Research Station, Kent. EMM65:103-104]  
In culture, the bugs will attack each other, one mounting the back of another and inserting its stylets into a coxa. This method of attack is also used with leaf hoppers and immature capsids. When attacking Aphids and mites, the rostrum is held out in front and pierces the nearest part of the body of its prey. Eggs are often laid where there is an abundance of red spider mite [East Malling Research Station, Kent. Nymphs and adults. EMM65:103-104]  
Observed on *Rubus* to feed upon the red spider mites *Tetranychus telarius* and *Oligonychus ulmi*, and on their eggs [East Malling Research Station, Kent. Nymphs and adults. EMM65:103-104]  
In a sprayed apple orchard, on grass beneath apple trees and in sackbands from trunks of apple trees; and on *Salix* a mile away [East Malling, Kent. 1958. PRESL(A)42:107-118]  
From cultivated raspberries [East of Scotland. EMM88:51-62]  
Seen to be active, and occasionally feeding, on sunny days in all winter months. In spring, large numbers suddenly emerge when conditions are suitable; in south-east England this is some time in March or early April. At first they tend to aggregate on *Salix* spp., on which the catkins open early; they are then found on various trees as the buds open and prey becomes available, and later extend on to herbaceous plants. Generally the majority of adults found in the spring are fertilised females, the males having died the previous autumn, but in some situations and some years males are also found in spring, and copulation occurs. It would appear that the composition of the emerging population depends on the structure of the population in the previous summer and autumn. If young males and females are forced to overwinter by the onset of unfavourable conditions, both sexes are likely to be found in the following spring, whereas if they mature somewhat earlier and mating occurs, the males die before the winter. Egg-laying starts soon after the general appearance of adults in the spring. However, field conditions are often marginal in March and April, and only a small number of eggs are laid during this time. The first nymphs were normally found on trees within the first three weeks of May, but one to two weeks later on herbage such as nettle and blackberry in the same situation. The peak of first generation nymphs was in June; the second generation was abundant in late July and August,

- and extended until October when a few entered hibernation as nymphs, although the majority had become adult [England. Adults. PRESL(A)42:107-118]
- Feeding on Collembola, Psocoptera, Thysanoptera, *Lygus* (on *Chrysanthemums*), mirids (on *Sarothamnus scoparius*), Cicadellidae (on *Rubus* and Apple), Delphacidae (on *Juncus*), *Psylla mali* (in laboratory), Pear psylla (on pear), *Arytaina* (on *Sarothamnus scoparius*), *Aphis fabae* (on *Vicia faba*, *Euonymus europaeus* and in laboratory), *Amphorophora rubi* (on *Rubus*), *Pemphigus bursarius* (in leaf galls of *Populus*), *Pentatrichopus fragarifolii* (on strawberry), *Aulacorthum circumflexum* (in laboratory), *Rhopalosiphum insertum* eggs (in laboratory), *Acyrrhosiphon pisum* (in laboratory), *Acyrrhosiphon spartii* (on *Sarothamnus scoparius*), aphids (on *Humulus lupulus*), apple aphids (on apple), *Conwentzia pineticola* (on apple), Lepidoptera larvae (on *Sarothamnus scoparius*), *Stethorus punctillum* larvae (on apple), *Oligota fiavicornis* larvae (on apple), *Phytodecta olivacea* (on *Sarothamnus scoparius*), gall midges (on *Salix*), *Dasyneura pyri* (on pear), Dipterous larvae (on apple), *Tetranychus telarius* (on *Rubus* and *Humulus lupulus*), and *Panonychus ulmi* (on *Rubus* and apple) [England. PRESL(A)42:107-118]
- On broom fed non-selectively on aphids and psyllids [England. PRESL(A)42:107-118]
- Biting the hands of a man picking blackberries (*Rubus*) in a garden [Esher, Surrey. EMM126:96]
- On *Quercus* [Gogerddan, Cardiganshire. 1954-55. EMM92:54-64]
- On trees [Hampstead Heath. PTSLENHS1949-50:36-38]
- Ditches and disturbed areas [Hartlebury Common LNR, Worcestershire. EMM133:17-26]
- In culture, laid eggs on detached nettle leaves. Avoided leaf areas treated with the entomopathogenic fungus *Beauveria bassiana* (Balsamo) Vuillemin (Ascomycota: Hypocreales), and *Beauveria bassiana* sporulating nettle aphid cadavers. Suggest that the bug detects and avoids *Beauveria bassiana* on host plants [Hertfordshire. April/May 2004. Adults. EcolEnt31:162-171]
- On trees [Hounslow Heath, Middlesex. 1952. Ent86:34-40]
- Suction-sampling Pellitory-of-the-wall (*Parietaria diffusa*) [Hunts/Cambs/Beds. 1971-1972. Adults and nymphs. EMM109:252-254]
- Suction-sampling Small Nettle (*Urtica urems*) [Hunts/Cambs/Beds. 1971-1972. Adults and nymphs. EMM109:252-254]
- Suction-sampling Small Nettle (*Urtica urems*) [Hunts/Cambs/Beds. 1971-1972. Adults and nymphs. EMM109:252-254]
- From apple, broom, *Salix*, lime, sycamore, hawthorn, elm, oak, beech, ash, birch and nettle. It has two generations per year in Southern England. The overwintered adults (practically all females) emerge from hibernation in mid to late March and aggregate especially on *Salix*. The population gradually disperses to other plants as these come into leaf and become inhabited with suitable prey. Oviposition commences in mid-April, larvae occurring about one month later, and the first adults occur in the latter half of June. The generations overlap in late June and early July. Second-generation larvae are present from July to October. The extreme length of the generations is due to an extended oviposition period and variability in larval duration. It hibernates under bark, in litter, in plant stems and similar protected niches [Imperial College Field Station, Silwood Park, Ascot, Berkshire. 1959-1960. TRESL114:67-95]
- In rush (*Juncus*) plots predating adults of the delphacid *Conomelus anceps* [Imperial College Field Station, Silwood Park, Berkshire. Adults and nymphs. EMM99:157-161]
- On bramble, nettle and *Stachys sylvatica* [Inchcailloch, Stirlingshire. 1966-1967. EMM114:21-24]
- In the rolled leaf galls of the psyllid *Psyllopsis fraxini* from an ash hedge in a garden [Lancaster. July. EMM107:11-12]
- In old bird's nest [Letchworth, Hertfordshire. March 1924. Adults. LondonHets]
- In garden [Leyton, Essex. 1950. LondonHets]
- Biting the abdomen of a man in a garden [London, N12. EMM126:96]
- Beating potato haulms. Adults seen feeding on the potato aphid (*Macrosiphum euphorbiae*) [Long Ashton Research Station, Bristol. 1967-1968. Adults and nymphs. EMM109:132-139]
- From old blackcurrent plantations [Long Ashton Research Station, North Somerset. 1967. Adults and nymphs. Ent101:202-204]

- From meadow and *Juncus effusus* bed [Moor House Nature Reserve, Penines, Westmoreland. 1962-67. TSBE19:173-235]
- On hops [Near Canterbury. EMM16:141]
- On broom [Near Gartness village, Stirlingshire. TRESL113:41-54]
- From nettles [Near Wymondley, Hertfordshire. August 1880. EMM17:234-235]
- On nettles [Neighbourhood of St Bees, Cumberland. 8-26 August 1924. EMM61:115-117]
- From naturally-vegetated derelict sites [North-west England. 1987-88. EG43:221-226]
- From naturally-vegetated derelict sites [NW England. 1987. Ent112:10-16]
- In the nest of the bee *Bombus agrorum* [Parish of Bury St Edmunds. 1889-1895. EMM32:153-155]
- In sandy places [Redhill, Surrey. LondonHets]
- Visiting sap exudation from an oak [RHS Gardens, Wisley, Surrey. 1921-24. TRESL74:243-254]
- From the flowering heads of Broad-leaved Ragwort (*Senecio fluviatilis*) along the banks of a river [River Chew, North Somerset. 1979-1980. EMM117:98]
- Suction sampling [Rothamsted Experimental Station, Harpenden. 1954. Male and females. TRESL112:173-220]
- In a suction trap [Rothamsted Experimental Station, Harpenden. 1954. Males and females. TRESL112:173-220]
- Sweeping [Rothamsted Experimental Station, Harpenden. 1954. Males and females. TRESL112:173-220]
- In a light trap [Rothamsted Experimental Station, Harpenden. August 1950. Male and females. TRESL112:173-220]
- Sweeping a large patch of nettles (*Urtica dioica*) [Rothamsted Experimental Station, Harpenden, Hertfordshire. August. Adults. EMM92:313-325]
- In association with and feeding on Aphides [Rutland and Leicestershire. Early summer 1926. EMM63:42]
- Beating *Quercus*, *Crataegus*, *Sorbus*, *Sarothamnus*, *Fagus* and *Betula* in a wood [Scotland. 1963. Adults. EMM113:139-146]
- From *Alnus glutinosa*, *Pyrus communis*, *Malus*, *Rubus fruticosus*, *R. idaeus*, *Ribes nigrum*, *Hedera Helix*, *Lonicera periclymenum* and various grasses [Scotland. By the end of April. Adults. TRESL109:379-394]
- A single generation per year in Scotland, in contrast to two (or more) generations in southern England [Scotland. TRESL109:379-394]
- From Lombardy poplar [SE Yorkshire. 2017. Adults and nymphs after a fortnight in storage. BJENH31:30]
- In an emergence trap over a standing dead trunk of oak (*Quercus robur*) in a garden [Sedlescombe, East Sussex. 2000/2001. BJENH17:212-216]
- In Malaise trap in birch woodland [Silwood Park, Sunninghill, Berkshire. 1991. BJENH20:49-55]
- In the flowers of Hedge Bindweed (*Calystegia sepium*) growing over sea-rounded boulders just above high tide mark [St Loy's Cove, West Cornwall. 1997. Adults and nymphs. EMM136:77-83]
- On umbelliferous flowers [Suffolk. SuffolkHets]
- Destroying eggs of the sawfly *Nematus piliserra* [Surrey. TSBE10:45-142]
- From trees [Valley of the North Tyne, between Wark and Bellingham. Early July 1918. EMM54:252-253]
- Beating oak, hazel, ash, sycamore, wych elm, hawthorn, pine, alder, willow, birch and oak in woods [Westmoreland. July 1954. TSBE15:117-134]
- Beating in a yew wood [Westmoreland. July 1954. Nymphs. TSBE15:117-134]
- Attacking hop leaves, doing much harm. Occasionally feed upon 'hop lice' [Wye Court, near Ashford. EMM32:60-62]

*Anthocoris pilosus* (Jakovlev) (Anthocoridae)

- Beating trees [Isle of Scalpay, Hebrides. 1936. S&L1959]

*Anthocoris sarothamni* Douglas & Scott (Anthocoridae)

- Beating a dead fir hedge [Brandon, Suffolk. 24 April 1904. SuffolkHets]  
 On *Cytisus scoparius*. In culture fed on aphids and larvae of *Cheimatobia brumata* [Imperial College Biological Field Station, Slough, Buckinghamshire. 10 May 1934. TSBE2:47-67]  
 On *Cytisus scoparius* [Imperial College Biological Field Station, Slough, Buckinghamshire. 14 May 1934. TSBE2:47-67]  
 Beating broom [Darenth, Kent. 24 May 1915. LondonHets]  
 Beating *Cytisus scoparius* [Browdown coastal range, South Hampshire. 1 June 2009. Female. BJENH23:204]  
 On broom [Farningham Wood, Kent. 5 July 1965. LondonHets]  
 On marsh herbage by a canal [Broom, Bedfordshire. 20 July 1947. EMM86:6-8]  
 On broom (*Sarothamnus scoparius*) [Greystones, Co Wicklow. 22 August 1933. IrelandHets]  
 On Broom (*Cytisus scoparius*) [Brownsea Island, Poole Harbour, Dorset. 2006-07. EG60:37-71]  
 On broom fed selectively on psyllids rather than aphids [England. PRESL(A)42:107-118]  
 Amongst denser stands of broom [Hartlebury Common LNR, Worcestershire. EMM133:17-26]  
 From broom, lime, sycamore, elm, oak, ash and nettle. Hibernation takes place in the dehiscent pods that remain on the host plant (broom), and also under bark on other trees. The adults are active and feed during warm days in the winter. Ovarial development is well advanced at the time of spring emergence. Oviposition commences in late March and larvae first occur four or five weeks later. A second generation of larvae occurs during July and August. The size of this generation is apparently determined by the proportion of first-generation females that reproduce instead of entering reproductive diapause. Psyllids on broom comprise the chief prey of *A. sarothamni*; if the numbers of prey are small when the first-generation adults mature, the size of the second generation is correspondingly reduced [Imperial College Field Station, Silwood Park, Ascot, Berkshire. 1959-1960. TRESL114:67-95]  
 On broom bushes [Morfa Harlech, Merionethshire. 1946. EMM83:95]  
 On broom and *Salix*. Nymphs only found on broom. A second generation occurs in the field in exceptionally favourable climatic conditions. Feeds in field/laboratory on *Arytaina genistae*, *Trioza urticae* and *Acyrtosiphon pisum* [Near Gartness village, Stirlingshire. TRESL113:41-54]  
 On *Sarothamnus* [Newborough Warren, Anglesey. July 1958. EMM95:68]  
 On broom [Weybridge. July 1869/70. EMM7:184-185]  
 On old broom bushes (*Sarothamnus scoparius*) [Weybridge. July and August 1863. D&S1865]  
 On common broom [Woking, Chobham. Saunders1892]

*Anthocoris simulans* Reuter (Anthocoridae)

- Beating ash by a roadside [Beverley, South-east Yorkshire. 12 July 2019. Hem6:255]  
 On ash [Little Missenden, Buckinghamshire. 13 July 1952. LondonHets]  
 Beating *Fraxinus excelsior* [Amptill Park, Amptill, Bedfordshire. 3 August 1960. EMM97:32-33]  
 On hazel [Chesham, Buckinghamshire. 6 August 1959. LondonHets]  
 On ash (*Fraxinus*) [Wychwood Forest, Oxfordshire. 7 August 1967. EMM104:22]  
 On *Fraxinus* [Latimer, Buckinghamshire. 16 August 1952. Male. EMM90:36-40]  
 From bunches of keys of ash [North Essex. 25 August 1984. HSGN4:4]  
 On ash [Amersham, Buckinghamshire. 20 September 1952. LondonHets]  
 From ash [Bedfordshire, Essex and Oxfordshire. Males. HSGN3:10]  
 From ash [Blackheath, London. July 1959. EMM96:17]  
 From young sapling ash in a garden [Blackheath, London. October 1959. EMM96:17]  
 From ash [Box Hill, Surrey. September 1959. EMM96:17]  
 On an ornamental ash in a garden [East Malling, Kent. EMM94:280]  
 On old ash trees [East Malling, Kent. September 1958. EMM94:280]  
 From ash. It leaves hibernation and returns to ash in early April. The primary prey, *Psyllopsis fraxinicola*, emerge in late April and *A. simulans* starts to oviposit shortly thereafter. Larvae of the first generation are present from mid-May until mid-July. There may be a small second generation from July to September, but this is improbable, because the only prey available

would be adult Psyllids. *A. simulans* adults are present on ash throughout the autumn but the numbers gradually decrease during September and October [Imperial College Field Station, Silwood Park, Ascot, Berkshire. 1959-1960. TRESL114:67-95]

In woods [Westmoreland. July 1954. TSBE15:117-134]

Beating an ash tree [Windsor Great Park, Berkshire. 1959. EMM96:17]

Beating an ash tree [Windsor Great Park, Berkshire. September 1958. EMM96:17]

*Anthocoris visci* Douglas (Anthocoridae)

Beating Mistletoe (*Viscum album*) growing from a Rowan (*Sorbus aucuparia*) [St Mary's Church, High Street, Oxfordshire. 15 July 2014. EMM150:240]

From Mistletoe growing at head height in several ancient apple trees, remnants of a former orchard [Box End, Kempston, VC30. 30 July 2005. HN7:13]

Off mistletoe [Stratford-upon-Avon, VC38. 19 September 1998. Hem3:96]

From mistletoe (*Viscum album*) [Hereford. 4 October 1889. Adults and nymphs. EMM25:427-428]

Shaking mistletoe blown down from a Poplar in a wood [Bedfordshire. HSGN6:8]

In a traditional apple orchard [Cotehele, VC2. September 2009. HN17/18:21]

From mistletoe [Hereford. September 1889. PESL1889:xlvi]

From mistletoe on balsam poplar in an orchard [Kemerton, Worcestershire. 1996. BJENH12:237-239]

From mistletoe on apple in an orchard [The Ladin, Herefordshire. 1996. BJENH12:237-239]

In an old farm orchard [Twinton Orchard, Little Comberton, Worcestershire. July 1991. EG43:303-304]

From bushy growths of mistletoe growing on standard apple trees in a neglected grass orchard [Wateringbury, Kent. September 1941. EMM78:39]

*Brachysteles parvicornis* (A. Costa) (Anthocoridae)

Amongst dwarf plants of clover (*Trifolium repens*) [Deal. Whit Monday and Tuesday 1906 (4-5 June). EMM42:162-163]

Shaken from a dead branch of a Hawthorn bush encrusted with grey lichen [Willington Quarry, VC30. 27 June 2012. Female. HN19/20:11]

Sweeping in a small wood [Kessingland, Suffolk. 30 July 1904. SuffolkHets]

Under low plants growing in patches on shingle [Dungeness, Kent. 9 September 1923. EMM62:39-40]

In a stack of rotting reeds [Brownsea Island, Poole Harbour, Dorset. 2006-07. EG60:37-71]

At roots of grass [East Malling, Kent. November. TSBE11:245-280]

In leaf litter [Lea Valley Country Park, VC20. September 2005. HN8:12]

Sweeping under an elm hedge [Southwold, Suffolk. August 1877. Females and nymphs. EMM14:164]

Running on the damp ground amongst scantily growing rushes [Totland Bay, Isle of Wight. August 1907. EMM43:253-254]

Sweeping in an old clay pit [Uckfield, Sussex. PTBENHS17:18]

*Buchananiella continua* (F.B. White) (Anthocoridae)

In leaf litter in a graveyard [St Giles Church, Oxford. 14 March 2014. BJENH27:219-220]

In leaf litter in a graveyard [St Giles Church, Oxford. 19 March 2014. BJENH27:219-220]

On a promenade sea wall [Burnham-on-sea, Somerset. 11 April 2005. EMM141:166]

In stacks of cut sedge in a wet fen [Flitwick Moor, Bedfordshire. 13 May 2004. Adults. EMM142:22]

In the debris from beating larch (*Larix*) [University Parks, Oxford. 18 May 2017. BJENH31:25-26]

In the debris from beating pine (*Pinus*) [University Parks, Oxford. 22 May 2017. BJENH31:25-26]

Beating various trees and shrubs in an overgrown cemetery [York Cemetery, York, North-east Yorkshire. 10 July 2019. Hem6:254]

In the debris from beating larch (*Larix*) [Sydlings Copse, Oxford. 20 July 2017. BJENH31:25-26]

- Shaking Leyland Cypress in a garden [Pershore, Worcestershire. 1 August 2005. Adult and nymph. EMM141:248]
- In a Rothamsted-type light trap run in a garden surrounded by arable land [Cockayne Hatley, Bedfordshire. 9 August 2003. Male. EMM142:22]
- On dead twigs [Ashleworth, VC34. 15 August 2008. HN13:11]
- Sweeping the shoreline [Bosham, Sussex. 15 August 2016. Hem5:13]
- Beating [University Parks, Oxford, Oxfordshire. 16 August 2006. Hem5:13]
- Beating stacked dry branches onto a plastic tray. Very active, moving in a series of very short flights of a few centimetres, often with brief rests or short walks between [Garden of Buckingham Palace. 21 August 1997. Males and females. BJENH12:221-223]
- From dead branches of Scots Pine [Hinksey Park, Oxford, Watsonian Berkshire. 31 August 2015. Hem4:62]
- Beating Sycamore [Nonsuch Park, Surrey. 1 September 2004. Teneral male. EMM142:22]
- Beating Lawson Cypress [University Parks, Oxford, Oxfordshire. 5 September 2007. Hem5:13]
- In a wheelbarrow containing decaying apples in a garden [Evesham, Worcestershire. 7 September 2004. Adults. EMM141:166]
- In stacks of cut sedge in a wet fen [Flitwick Moor, Bedfordshire. 20 September 2002. Adults. EMM142:22]
- In stacks of cut sedge in a wet fen [Flitwick Moor, Bedfordshire. 24 September 2002. Adults and nymphs. EMM142:22]
- Beating dead leaves on a fallen bough [Swanton Novers Wood NNR, VC28. 28 September 2008. HN12:18]
- Beating withered foliage of dead branches of *Acer pseudoplatanus* [Brixham, Berry Head, VC3. 8 October 2006. HN9:12]
- Beating withered foliage of dead branches of *Acer pseudoplatanus* [Brixham, Berry Head, VC3. 9 October 2006. HN9:12]
- Beating withered foliage of dead branches of *Acer pseudoplatanus* [Torquay, Hope's Nose, VC3. 7 October 2006. Nymphs. HN9:12]
- Beating withered foliage of dead branches of *Acer pseudoplatanus* [Torquay, Maidencombe, VC3. 10 October 2006. HN9:12]
- In a bird feeder containing rotting peanuts [Woodmancote, VC33. 9 October 2008. HN13:11]
- Beating withered foliage of dead branches of *Acer pseudoplatanus* [Torquay, Hope's Nose, VC3. 14 October 2006. Nymphs. HN9:12]
- Beating withered foliage of dead branches of *Acer pseudoplatanus* [Torquay, Maidencombe, VC3. 14 October 2006. HN9:12]
- Beating withered foliage of dead branches of *Acer pseudoplatanus* [Torquay, Maidencombe, VC3. 15 October 2006. HN9:12]
- In stacks of cut sedge in a wet fen [Flitwick Moor, Bedfordshire. 18 October 2003. Adults. EMM142:22]
- Beating jasmine (*Jasminum*) in a garden [St John Street, Oxford. 17 October 2013. BJENH27:219-220]
- Shaking fallen mistletoe in an avenue of lime trees [Amptill Park, Bedfordshire. 31 October 2002. Adults. EMM142:22]
- Beating withered foliage of dead branches of *Acer pseudoplatanus* [Brixham, Berry Head, VC3. 27 October 2006. HN9:12]
- Amongst coarse garden waste in plastic sacks in a garden [Maidenhead, Berkshire. 30 October 2004. EMM141:124]
- Beating withered foliage of dead branches of *Acer pseudoplatanus* [Torquay, Hope's Nose, VC3. 27 October 2006. Nymphs. HN9:12]
- Beating ivy [Hertingfordbury, Hertfordshire. 27 November 2004. EMM142:22]
- On dead leaves on fallen branches from deciduous trees [Bedfordshire. HN11:15]
- On *Crataegus* and *Clematis vitalba* [Brixham, Berry Head, VC3. October 2006. HN9:12]
- From a garden compost heap [Central Sheffield, VC 63. August 2009. HN15:10]
- Shaking an abandoned wasp nest taken from a roadside hedge [Elstronwick, VC61. October 2006. Adults. HN9:16]

In sedge stacks [Flitwick Moor, Bedfordshire. September 2002. Adults (one teneral) and nymphs. BJENH16:186]  
 In malaise-trap [Garden of Buckingham Palace. 1995. Male. BJENH12:221-223]  
 In malaise-trap [Garden of Buckingham Palace. 1997. Male. BJENH12:221-223]  
 In Ivy (*Hedera helix*) [Lea Valley Country Park, VC20. March 2005. HN8:12]  
 From a compost heap in an urban residential area [Sheffield, VC63. 2008. HN13:11]  
 In twiggy refuse under trees [Urban Hull, SE Yorkshire. September 2001. Nymph reared to adult male. EMM141:166]

*Cardiastethus fasciiventris* (Garbiglietti) (Anthocoridae)

On Douglas Fir [Near Wimborne, Dorset. 16 February 1935. EMM71:159-161]  
 Beating Spruce trees [Windsor Forest. 24 March 1933. EMM69:105-106]  
 From gorse on the side of a hill [Near Barton Mills, Suffolk. 1 April 1934. Adults. EMM71:92-93]  
 Beating fir trees in a wood [Raydon Great Wood, near Hadleigh, Suffolk. 16 April 1899. EMM35:117]  
 Sweeping near larch [Headley Lane, Surrey. 4 May 1904. LondonHets]  
 On gorse [South of Weavers Down, VC13. 31 May 2014. Hem6:231]  
 Sweeping [Boxhill, Surrey. 4 June 1905. LondonHets]  
 Beating conifers [Homefield Wood, Buckinghamshire. 14 June 2012. EMM151:176]  
 Sweeping woodland ground flora along river flats [River Dart, Hembury Woods, South Devon. 14 June 1990. BJENH4:119-121]  
 Beating conifers [Homefield Wood, Buckinghamshire. 24 June 2010. EMM151:176]  
 Sweeping long grass [Weybridge. 29 June 1872. EMM9:119]  
 Beating Lawson cypress in a cemetery [Haxby Cemetery, near York, North-east Yorkshire. 9 July 2019. Hem6:254]  
 Beating pine [Skipwith Common, South-east Yorkshire. 10 July 2019. Hem6:254]  
 Beating various trees and shrubs in an overgrown cemetery [York Cemetery, York, North-east Yorkshire. 10 July 2019. Hem6:254]  
 Beating a hedge [Bentley, VC12. 12 July 2016. Hem6:230]  
 From Larch (*Larix*) [Buckland Warren, Stanford in the Vale, VC22. 15 July 2016. Nymph reared in culture. Hem4:126]  
 From Pine (*Pinus*) [Shotover Hill, Oxford, Oxfordshire. 13 July 2016. Nymph reared in culture. Hem4:126]  
 Beating turkey oak foliage [Sprydoncote Park, Killerton Estate, South Devon. 11 July 1990. BJENH4:119-121]  
 Off mistletoe [Cotehele House orchards, Cornwall. 18 July 2006. CornwallHets]  
 On old, lichen-covered larch (*Larix decidua*) [Tollard Royal, Wiltshire. 20 July 1960. Adults and nymphs. EMM96:152]  
 On gorse [Beggars Corner, VC12. 31 July 2017. Hem6:230]  
 On lichen-covered blackthorns [Lundy Hole, St Minver Highlands, VC2. 3 August 2006. HN8:11]  
 From Box (*Buxus sempervirens*) [University Parks, Oxford, Oxfordshire. 7 August 2016. Nymph reared in culture. Hem4:126]  
 From Lawson's Cypress (*Chamaecyparis lawsoniana*) [University Parks, Oxford, Oxfordshire. 7 August 2016. Nymph reared in culture. Hem4:126]  
 Beating gorse (*Ulex*) [Thursley NNR, Surrey. 11 August 1995. EMM133:175-176]  
 On lichen-covered blackthorns of a hedge bank [Carne Farm, Lanteglos, VC2. 26 August 2006. HN8:11]  
 On streamside willows and blackthorns [Port Quin valley, VC2. 31 August 2006. HN8:11]  
 Beating Lawson Cypress (*Chamaecyparis lawsoniana*) [University Parks, Oxford. 5 September 2007. ERJV123:156]  
 On lichen-covered sloe (*Prunus spinosa*) growing as a windswept thicket [The Fleet, near Abbotsbury, Dorset. 12-14 September 1955. Adults and nymphs. EMM91:282-283]  
 On spruce [Boxhill, Surrey. 3 October 1937. LondonHets]  
 Under the bark of sycamore (*Acer pseudoplatanus*) killed by sooty bark disease [Grafham Caravan Park, VC31. 8 November 1996. Adults and nymphs. ERJV109:98-100]

Beating lichen-encrusted Blackthorn (*Prunus spinosa*) [Bealeswood Common, Dockenfield, Surrey. June 1997. EMM134:265-266]  
 On Gorse (*Ulex europaeus*), Scots Pine (*Pinus sylvestris*), Norway Spruce (*Picea abies*) and Lawson's Cypress (*Chamaecyparis lawsoniana*) [Bedfordshire. HN11:15]  
 Under bark of an old apple tree in an orchard [Brent Knoll, Somerset. EMM68:41-42]  
 On low vegetation below a seawall [Brownsea Island, Poole Harbour, Dorset. 2006-07. EG60:37-71]  
 Beating hawthorn [Coddensham and Brandon, Suffolk. May. SuffolkHets]  
 On Gorse [East Anglia. EMM133:261-262]  
 Sweeping [Hayland, near Sudbury. May 1898. EMM35:117]  
 Sweeping [Horsell and Chobham. Synopsis1875]  
 Sweeping at the edge of cliffs in the evening [Isle of Sheppey. EMM23:139-140]  
 Sweeping weeds [Nayland, Suffolk. SuffolkHets]  
 Beating spruce, Scots pine and gorse [Near Barton Mills, Suffolk. 19-22 April 1935. EMM71:141-142]

*Dufouriellus ater* (Dufour) (Anthocoridae)

In beehive under bark [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. 10 March 1957. LondonHets]  
 Under pine bark [Hillingdon, Middlesex. 2 April 1933. Ent71:148-153]  
 In building [Natural History Museum, Middlesex. 11 April 1950. LondonHets]  
 Under loose bark on dead Larch (*Larix*) branches in a pile built to provide cover for reptiles in an open sunny area [Maulden Wood, VC30. 6 May 2008. Adults of both sexes. HN13:10]  
 Under the bark of a fallen beech [Mungden Wood, near Hurley, Berkshire. 22 May 1991. EMM130:65-66]  
 Beneath sappy bark on recently fallen oak trunk [Castle Ward Park, County Down. 22 August 1998. Adult and nymphs. BJENH12:179]  
 In chicken-coop [Uxbridge, Middlesex. 28 August 1935. Ent71:148-153]  
 In building [Natural History Museum, Middlesex. 4 September 1949. LondonHets]  
 On cabbage [Imperial College Biological Field Station, Slough, Buckinghamshire. 7 September 1934. TSBE2:47-67]  
 Under loose bark of a fence-post near the sea [Near Abbotsbury, Dorset. 12-14 September 1955. Adults. EMM91:282-283]  
 Under bark [Fairmead, Epping Forest, Essex. 18 September 1915. LondonHets]  
 On roof of a building [Hampstead, Middlesex. 11 October 1945. LondonHets]  
 In building [Natural History Museum, Middlesex. 2 November 1949. LondonHets]  
 Under the bark of sycamore (*Acer pseudoplatanus*) killed by sooty bark disease [Grafham Caravan Park, VC31. 8 November 1996. Adults and nymphs. ERJV109:98-100]  
 Under oak bark [Ashridge, hertfordshire. July 1936. LondonHets]  
 In a garden under chips of bark on the trunk of a dead William pear tree infested with the bracket fungus *Polystictus versicolor* [Blackheath, London. EMM95:96]  
 In a garden under dry bark on a post forming part of a rose-arch [Blackheath, London. EMM95:96]  
 Under bark of larch fencing [Broadway, Worcestershire. 1985-1991. Breeding colony. EMM129:60]  
 Under bark of a London Plane tree (*Platanus xhispanica*) [City of Lincoln. HN14:11]  
 Under bark [Croydon. 1869/70. EMM7:184-185]  
 Beneath bark of post [Esher Common, Surrey. LondonHets]  
 Beneath dead pine bark [Suffolk. Nymphs. SuffolkHets]

*Elatophilus nigricornis* (Zetterstedt) (Anthocoridae)

Beating the lowest branches of an old Scots pine (*Pinus sylvestris*) [Chobham Common, Surrey. 25 June 1953. EMM89:279]  
 On old, well-grown pines [Burnham Beeches, Buckinghamshire. 30 June 1954. EMM90:205]  
 On *Pinus sylvestris* [Hill of Moncrieff, Perth. 30 June 1876. EMM13:85-86]  
 Beating old pines [Watlington Hill, Oxfordshire Chilterns. 27 June 1971. EMM107:166]

Beating pine [Near Tuddenham, West Suffolk. 4 July 1964. EMM100:87]  
 Beating the lowest branch of an old pine (*Pinus sylvestris*) [Oxshott, Surrey. 2 July 1955. EMM92:47-48]  
 Beating pine [Skipwith Common, South-east Yorkshire. 10 July 2019. Hem6:254]  
 Scots Pine (*Pinus sylvestris*) [Near Wickridge Street, VC33. 15 August 2008. HN13:11]  
 Shaking Scots Pine foliage [Maulden Wood, VC30. 22 August 2006. Female. HN9:14]  
 In a light trap [Rothamsted Experimental Station, Harpenden, Hertfordshire. 22 August 1935. Male. LondonHets]  
 Beating pine [Witley Common, Surrey. 27 August 2010. Hem6:244]  
 In a light-trap [Aviemore, Inverness-shire. July 1968. EMM105:165-166]  
 On *Pinus* in the grounds of a hotel [Aviemore, Inverness-shire. July 1968. EMM105:165-166]  
 In a light trap. First record for south of England [Chiltern Hills, Hertfordshire. 1935. TRESL89:79-131]  
 On old, well-grown pines [Chobham Common, Surrey. 1954. EMM90:205]  
 Beating *Pinus sylvestris* [East Malling, Kent. July 1942. Female. EMM81:47]  
 On *Pinus sylvestris* [May Hill, VC34. 2007. HN11:16]  
 Beating *Pinus sylvestris* [Near the brick field, Balmer Lawn, Brockenhurst, Hampshire. July 1939. Female. EMM81:47]  
 In a light trap [Rothamsted Experimental Station, Harpenden. 1935. Male. PRESL(A)13:19-24]  
 On *Pinus* in a forest [Rothiemurchus Forest, Inverness-shire. July 1968. EMM105:165-166]  
 On pines [Sanquhar and Loch Romach, near Forres, Morayshire. EMM14:165-167]  
 Scotch Fir [Scotland. June. EMM23:43-44]

*Lyctocoris campestris* (Fabricius) (Anthocoridae)

In granary [High Holborn, Middlesex. 14 February 1905. LondonHets]  
 In a house [Putney, Surrey. 28 February 1927. LondonHets]  
 On pine [Shirley Common, Surrey. 1 May 1897. LondonHets]  
 In a suction trap in a field of young winter wheat [Ardington, Berkshire. 10 May 1954. EMM93:121-126]  
 In a suction trap in a field of young winter wheat [Ardington, Berkshire. 11 May 1954. EMM93:121-126]  
 Amongst dead leaves [Oakham. 14 May 1932. EMM68:213-214]  
 In a farmyard [Wothorpe, Northamptonshire. 14 May 1932. EMM68:213-214]  
 In old bird's nest in holly tree [Springwell gravel pits, West Hyde, Hertfordshire. 19 May 1956. Nymph. LondonHets]  
 In haystack refuse [Kidbrook, Kent. 22 May 1912. LondonHets]  
 In ditch [Imperial College Biological Field Station, Slough, Buckinghamshire. 6 June 1933. Male. TSBE2:47-67]  
 From a Starling's nest [Persore, Worcestershire. 15 June 1986. EMM124:193-194]  
 In hay-manure heap in a small orchard [Boxmoor, Hertfordshire. 3 July 1946. EMM85:249-253]  
 On *Aquilegia* in a small orchard [Boxmoor, Hertfordshire. 7 July 1946. EMM85:249-253]  
 Beating pine [Bookham Common, Surrey. 6 August 1895. LondonHets]  
 Flew into a warehouse [Near the city docks of Bristol. 19 August 1921. Adult swarm. EMM87:250]  
 In chicken-coop [Uxbridge, Middlesex. 28 August 1935. Ent71:148-153]  
 In haystacks [Lewisham, Kent. 5 September 1896. LondonHets]  
 On poplar [Blackheath, Kent. 10 September 1898. LondonHets]  
 On a river wall [River Thames, Belvedere, Kent. 12 October 1984. ERJV101:47-49]  
 In heron's nests [High Halstow NNR, near Rochester, Kent. 1-2 December 1972. EMM109:236-237]  
 In decaying fungus on elm [Stone, Near Dartford, Kent. 26 December 1956. LondonHets]  
 In haystack refuse [Arklow, Co Wicklow. July 1926. IrelandHets]  
 In a house [Bayswater. EMM28:230-232]  
 In a suction trap [Cardington, Bedfordshire. 1953. Male and females. TRESL112:173-220]  
 In a suction trap [Cardington, Bedfordshire. August 1955. Males. TRESL112:173-220]

In houses [Dublin. IrelandHets]  
 In sedge stacks [Flitwick Moor, Bedfordshire. September 2002. Adults (one teneral) and nymphs. BJENH16:186]  
 Meadows [Glenageary, Co Dublin. September 1931. IrelandHets]  
 On a tip [Hounslow Heath, Middlesex. 1952. Ent86:34-40]  
 In dairy [Kildare, Co Kildare. May 1908. Nymph. IrelandHets]  
 In refuse in buildings [Kinloch farm and Harris bothy, Isle of Rhum. 1960-63. TSBE18:91-167]  
 In stored hay [Kinloch farm, Isle of Rhum. 1960-63. TSBE18:91-167]  
 In old bird's nest [Letchworth, Hertfordshire. March 1924. Adults. LondonHets]  
 In a granary warehouse containing wheat [London. 1943 & 1944. PRESL(A)22:30-33]  
 From alluvial grassland and *Calluna* moor [Moor House Nature Reserve, Penines, Westmoreland. 1962-67. TSBE19:173-235]  
 Bird's nest [Near Peterborough. EG20:125-135]  
 In straw litter [Near Peterborough. EG20:125-135]  
 In a deep-pit poultry house [Near Preston, Lancashire. 1976-1978. EMM116:13-15]  
 From rooks' nests [Oxford/Peebles. 1928. EMM67:35-36]  
 In the nest of the bee *Bombus agrorum* [Parish of Bury St Edmunds. 1889-1895. EMM32:153-155]  
 At bottom of haystacks [Redhouse and Colley Farms, near Reigate, Surrey. LondonHets]  
 In heaps of fresh-cut hay [Rhosneigr, Anglesey. August 1932. EMM68:231-232]  
 In pigeon nests on ledges under a road bridge over a river [River Wandle, London Surrey. BJENH12:193-213]  
 In a light trap [Rothamsted Experimental Station, Harpenden. Females. TRESL112:173-220]  
 In a suction trap [Rothamsted Experimental Station, Harpenden. Males and females. TRESL112:173-220]  
 From a heron's nest, blown down from the branches of a Spanish Chestnut [Sidmounth Plantation, Richmond Park, Surrey. December 1934. ERJV47:69-71]  
 Beating gorse bushes (*Ulex*) [Spurn Head, Yorkshire. 24-26 July 1953. EMM90:40]  
 In Boleti, with larvae of *Orchesia micans* [Suffolk. SuffolkHets]  
 In the brick basements of haystacks [Suffolk. Nymphs. SuffolkHets]  
 Under bark of cut pine logs lying near haystacks [Tolka Valley, Finglas, Co Dublin. September 1927. IrelandHets]  
 On fences [Vicinity of Dover. EMM26:81-82]  
 In deer pens [Windsor. ERJV47:69-71]

*Orius horvathi* (Reuter) (Anthocoridae)

Beating Austrian Pine (*Pinus nigra*) [Westwood, Peterborough, VC32. 10 July 2014. HN22:2]  
 Beating Austrian Pine (*Pinus nigra*) [Westwood, Peterborough, VC32. 25 July 2014. HN22:2]

*Orius laevigatus* (Fieber) (Anthocoridae)

On *Rubus idaeus* [Trawscoed, Cardiganshire. 14 June 1951. Female. EMM92:54-64]  
 On *Rubus* flowers in chalk-pit [Sewell, near Houghton Regis, Bedfordshire. 5 July 1944. EMM81:183-185]  
 Beating/sweeping in a cemetery [North Petherton, VC5. 8 August 2019. Hem6:263]  
 Sweeping rank vegetation along a ride [Wychwood Forest, Oxfordshire. 7 August 1967. EMM104:22]  
 On dead foxglove stems [Lansallos East Coombe, Cornwall. 22 August 2006. CornwallHets]  
 Sweeping *Mentha* and *Pulicaria* [Port Quin valley, Cornwall. 31 August 2006. CornwallHets]  
 From flowers of mullein (*Verbascum thapsus*) in a hotel garden [Abbotsbury, Dorset. 12-14 September 1955. EMM91:282-283]  
 From mullein (*Verbascum thapsus*) growing in a hedgerow near the sea [Near Abbotsbury, Dorset. 12-14 September 1955. EMM91:282-283]  
 In a garden [Blackheath, London. EMM95:96]  
 Sweeping in chalk lane [Cranborne, Dorset. 1959-1960. EMM96:214]  
 On Michaelmas Daisies [Madeley, Staffordshire. EMM75:79]

On a mixed bed of half-hardy annuals [Stevenage, Hertfordshire. EMM75:79]

*Orius laticollis* (Reuter) (Anthocoridae)

From rowan (*Sorbus aucuparia*) [Whipsnade Wild Animal Park, Dunstable, Bedfordshire. 7 May 2005. BJENH20:123-125]

From White Willow/Osier [Wilstone Reservoir, Hertfordshire. 17 August 2015. Adult. Hem3:124]

On riverside willows [Rotherham, VC63. July 2006. HN9:15]

*Orius majusculus* (Reuter) (Anthocoridae)

Sweeping [Hampstead Heath, Middlesex. 23 April 1949. LondonHets]

Beating apple trees growing amid rough, uncut grass and weeds [Grounds of the Pest Infestation Laboratory, Slough, Buckinghamshire. 26 July 1955. EMM92:35]

Flying to MV light [Westmancote, Worcestershire. 1 August 1995. EG48:23-33]

Sweeping [Wisley Common, Surrey. 11 August 1899. LondonHets]

Aerial netting at 50 ft over a grassy sports field [Cardington, near Bedford. 19 August 1947.

PRESL(A)24:128-130]

In mixed vegetation [Ruislip NR, Middlesex. 23 August 1964. Adults. LondonHets]

On nettles [Imperial College Biological Field Station, Slough, Buckinghamshire. 1 September 1934. TSBE2:47-67]

Set-aside fields beside an airport [Shoreham Airport, VC13. 2 September 2015. Hem6:231]

On *Salix* [Lower Oddington Ashes, Gloucestershire. 10 September 1994. GloucsHets]

Feeding on the flies *Sciara thomae* on pea plants in a garden [Monk Soham House, Suffolk. 10 September. Ent50:64-66]

Sweeping [Byfleet, Surrey. 12 September 1936. PTSLENHS1936-37:39-40]

Aerial netting at 2000 ft over a grassy sports field [Cardington, near Bedford. 19 September 1947. PRESL(A)24:128-130]

Sweeping [Wisley, Surrey. 17 September 1905. LondonHets]

From inside the galls of *Pemphigus spyrothecae* on the leaf petioles of Lombardy poplars [Wandsworth Common, Surrey. 22 September 2003. BJENH17:181-182]

On nettles [Imperial College Biological Field Station, Slough, Buckinghamshire. 1 October 1934. Adults. LondonHets]

In a suction trap [Cardington, Bedfordshire. August 1955. Males and females. TRESL112:173-220]

Under *Polygonum aviculare* on a tip [Hounslow Heath, Middlesex. 1952. Ent86:34-40]

In apple [Norfolk. February 1918. EMM75:29-31]

In the nest of the bee *Bombus agrorum* and the wasp *Vespa vulgaris* [Parish of Bury St Edmunds. 1889-1895. EMM32:153-155]

Sweeping [Rothamsted Experimental Station, Harpenden. 1954. Males and female. TRESL112:173-220]

In a light trap [Rothamsted Experimental Station, Harpenden. Male. TRESL112:173-220]

In a suction trap [Rothamsted Experimental Station, Harpenden. Males and females. TRESL112:173-220]

On *Angelica sylvestris* flowers [Suffolk. SuffolkHets]

On aquatic plants [Suffolk. SuffolkHets]

Under oak bark [Suffolk. Winter. SuffolkHets]

From the nest lining of a Swallow. In culture seen on several occasions to attack fowl mites (*Dermanyssus gallinae*), also from the linings, piercing the dorsum of the abdomen, withdrawing the rostrum after a short time to leave an empty exoskeleton [Sussex/Suffolk/Kent. 1934. Female. EMM71:162-163]

*Orius niger* (Wolff) (Anthocoridae)

On ling [South of Weavers Down, VC13. 31 May 2014. Hem6:231]

Sweeping *Artemisia vulgaris* on a derelict bombed site [Cripplegate, Middlesex. 18 June 1955. LondonHets]

On Tamarisk flowers [Mullion Cove village, Cornwall. 20 June 2001. CornwallHets]

- On stinging nettles [Northward Hill NNR, Kent. 25 June 1977. PTBENHS11:67-68]  
 From flowers of cross-leaved heath [Crowthorne. 1 July 1930. EMM75:29-31]  
 On flower-head of *Matricaria*, sandy cultivated ground [Southill, near Shefford, Bedfordshire. 1 July 1944. EMM81:183-185]  
 On heather [Whixall Moss. 8 July 1936. EMM75:29-31]  
 On sea mayweed of upper shore [Churchtown Farm, Saltash, Cornwall. 20 July 2005. CornwallHets]  
 Suction sampling Umbelliferae [Chelsea Physic Garden, Middlesex. 4 August 1981. PTBENHS16:50-52]  
 On *Anthemis* flowers [Bedfordshire. 16 August 1945. EMM86:6-8]  
 Amongst ling [Cannock Chase, Staffordshire. 16 August 1933. EMM75:79]  
 Sweeping saltmarsh [Hock Cliff, Fretherne, Gloucestershire. 28 August 1995. GloucsHets]  
 Amongst ling [Maer Woods, Staffordshire. 30 September 1933. EMM75:79]  
 Beating potato haulms [Long Ashton Research Station, Bristol. 2 October 1968. Female. EMM109:132-139]  
 Sweeping a narrow belt of well-grown *Erica tetralix* along the margin of a pond [Oxshott, Surrey. 15 October 1966. PTSLENHS1967:26-28]  
 Amongst ling [Cannock Chase, Staffordshire. 16 October 1929. EMM75:79]  
 On *Urtica* in chalk-pit [Houghton Regis, Bedfordshire. 1 November 1944. EMM81:183-185]  
 Suction sampling derelict grassy area [Battersea Park, London, Surrey. 2002. BJENH17:39-44]  
 Under tidal debris and low-growing plants below a seawall [Brownsea Island, Poole Harbour, Dorset. 2006-07. EG60:37-71]  
 From nettles behind sandhills [Deal. EMM75:79]  
 From demolition sites [Derby. 1982. EMM120:253-258]  
 Eating nymphs of the psyllid *Craspedolepta malachita* on Wormwood (*Artemisia absinthium*) at the edge of a saltmarsh [Flint, Flintshire. August 1971. EMM109:89-98]  
 Beating trees [Grounds of Buckingham Palace. PTSLENHS1963Part2:75-98]  
 Amongst heather [Hartlebury Common LNR, Worcestershire. EMM133:17-26]  
 Under *Polygonum aviculare* on a tip [Hounslow Heath, Middlesex. 1952. Ent86:34-40]  
 In garden [Leyton, Essex. 1950. LondonHets]  
 Sweeping a hedge [Neighbourhood of Marlborough, Wiltshire. June 1960. EMM103:22]  
 From brownfield land [Rockingham St, Sheffield, VC63. HN22:5]  
 In a suction trap [Rothamsted Experimental Station, Harpenden. Males and female. TRESL112:173-220]  
 In Malaise trap in birch woodland [Silwood Park, Sunninghill, Berkshire. 1991. BJENH20:49-55]  
 In pitfall trap set in grass heath [Stanford Training Area, Breckland, West Norfolk. 2017. BJENH31:231-237]

*Orius niger/laevigatus* AMBIGUOUS (Anthocoridae)

- On *Cuscuta* [Chobham Common, Surrey. 20 June 1925. LondonHets]  
 Sweeping banks of river [River Thames, Milton, Gravesend, Kent. 30 June 1903. LondonHets]  
 Sweeping an overgrown gutter bordering a former roadway [Prees Heath, near Whitchurch, Shropshire. 12 July 1925. EMM61:207]  
 In a wooded glen [Ferrybank, Arklow, Co Wicklow. 18 July 1926. IrelandHets]  
*Sisymbrium officinale* [Imperial College Biological Field Station, Slough, Buckinghamshire. 8 August 1931. TSBE2:47-67]  
 On ivy [Glenageary, Co Dublin. 19 August 1933. IrelandHets]  
 On *Convolvulus sepium* [Imperial College Biological Field Station, Slough, Buckinghamshire. 18 August 1931. Male. TSBE2:47-67]  
 On *Calystegia sepium* [Imperial College Biological Field Station, Slough, Buckinghamshire. 18 August 1931. Male. LondonHets]  
 Marsh [Kilcoole, Co Wicklow. 16 August 1927. IrelandHets]  
 Sweeping heath [Shirley Common, Surrey. 10 September 1898. LondonHets]  
 Sweeping heath [Shirley Common, Surrey. 16 September 1914. LondonHets]  
 On heath [Battle/Dallington Forest, East Sussex. August 1881. EMM18:113]

On heath (*Erica* and *Calluna*) [Britain. Butler1923]  
 At the roots of plants on a wayside bank [Isle of Wight. Butler1923]  
 On nettles [Minehead, Somerset. August 1928. EMM65:40-42]  
 On the shore [Southampton. D&S1865]  
 On *Cakile* [Tregantle, Cornwall. October 1911. CornwallHets]  
 On the flowers of *Ulex nanus* [Weybridge. September. D&S1865]

*Orius vicinus* (Ribaut) (Anthocoridae)

On flowerheads of ornamental daisies in a garden [Cirencester, Gloucestershire. 24 July 1995. GloucsHets]  
 Sweeping tall vegetation around the edge of an urban car park [Albion Street, Hull, VC61. 5 August 2018. Adults. Hem6:214]  
 Beating *Acer pseudoplatanus* [Nonsuch Park, Cheam, Surrey. 1 September 2004. BJENH18:208]  
 Beating an ornamental cypress (*Cupressus macrocarpa* 'Goldcrest') in a garden [Mossley Hill, Liverpool. 13 September 2002. EMM141:248]  
 On ash [Bedfordshire. HSGN3:10]  
 Sweeping long grass [Brownsea Island, Poole Harbour, Dorset. 2006-07. EG60:37-71]  
 From demolition sites [Derby. 1982. EMM120:253-258]  
 On cultivated raspberries [East Malling, Kent. Ent104:258-259]

*Orius vicinus/laticollis* AMBIGUOUS (Anthocoridae)

On *Rubus idaeus* [Trawscoed, Cardiganshire. 14 June 1951. Female. EMM92:54-64]  
 On maple [Amersham, Buckinghamshire. 12 July 1952. LondonHets]  
 Beating willow [Near Silsoe, Bedfordshire. 17 July 1954. EMM91:283]  
 Beating apple trees growing amid rough, uncut grass and weeds [Grounds of the Pest Infestation Laboratory, Slough, Buckinghamshire. 26 July 1955. EMM92:35]  
 Suction sampling various plants [Chelsea Physic Garden, Middlesex. 4 August 1981. PTBENHS16:50-52]  
 Beating potato haulms [Long Ashton Research Station, Bristol. 10 August 1967. Female. EMM109:132-139]  
 On *Solidago* [Garden of Buckingham Palace. 11 August 1982. PTBENHS17:37-39]  
 On bramble [Glenageary, Co Dublin. 24 August 1933. IrelandHets]  
 On *Chenopodium* [Pertenhall, Bedfordshire. 29 August 1945. EMM86:6-8]  
 On forget-me-not in garden [Hale End, Epping Forest, Essex. 23 September 1923. LondonHets]  
 On sallow [Mitcham Common, Surrey. 28 September 1983. LondonHets]  
 Sweeping vegetation at edge of heathland [Brownsea Island, Poole Harbour, Dorset. 2009. EG61:243-250]  
 In a suction trap [Cardington, Bedfordshire. 1953. Males and females. TRESL112:173-220]  
 In a suction trap [Cardington, Bedfordshire. August 1955. Female. TRESL112:173-220]  
 On *Salix* [Chobham, Surrey. August 1893. Female. LondonHets]  
 Sweeping [Deal. EMM26:81-82]  
 Under *Polygonum aviculare* on a tip [Hounslow Heath, Middlesex. 1953. Ent87:15-18]  
 On *Salix alba* and *Erigeron*. In culture fed on aphids [Imperial College Biological Field Station, Slough, Buckinghamshire. 1934. TSBE2:47-67]  
 In garden [Leyton, Essex. 1950. LondonHets]  
 Sweeping [Near Wymondley, Hertfordshire. August 1880. EMM17:234-235]  
 In a suction trap [Rothamsted Experimental Station, Harpenden. Males and females. TRESL112:173-220]

*Temnostethus gracilis* Horváth (Anthocoridae)

On sweet chestnut flattened by the 1987 hurricane [Chase Wood, VC13. 4 June 1997. Hem6:231]  
 On lichen-covered sloe (*Prunus spinosa*) [Box Hill, Oxfordshire. 17 June 1960. EMM96:152]  
 Blackthorn [Dizzard Oakwood, Cornwall. 10 July 2001. CornwallHets]  
 Beating lichen-covered blackthorn [Red Moor, Cornwall. 8 July 2001. CornwallHets]  
 Sallow [Crowhill Valley, Trenowth, Cornwall. 12 July 2001. CornwallHets]

- Off willow branch [The Straythe, Caragloose, Cornwall. 11 July 2001. CornwallHets]  
 On lichen-covered sloe (*Prunus spinosa*) [Cranborne, Dorset. 20 July 1960. EMM96:152]  
 On old, lichen-covered larch (*Larix decidua*) [Tollard Royal, Wiltshire. 20 July 1960. EMM96:152]  
 Sweeping grasses [Gloucestershire. 21 July 1960. EMM96:112]  
 Beating *Corylus avellana* [Llangurig, Montgomery. 21 July 1955. Female. EMM92:54-64]  
 Under lichen on rocks [Bray Head, Wicklow. 3 August 1927. EMM125:206]  
 Amongst lichens on *Malus sylvestris* [Aber Isle, Dumbartonshire. 8 August 1967. EMM114:21-24]  
 Hawthorns and blackthorns along hedge banks [Foage Farm, Zennor, Cornwall. 8 August 2006. CornwallHets]  
 Amongst *Parmelia/Usnea* lichens on the trunks of oaks [Inchcailloch, Stirlingshire. 6 August 1966. EMM114:21-24]  
 Sweeping/beating [Lydeard Hill, Quantocks, VC5. 8 August 2019. Hem6:263]  
 On branch of old oak in haymeadow [Highgrove House, Gloucestershire. 17 August 1995. GloucsHets]  
 On oak branches [South Penquite Farm, Cornwall. 23 August 2005. CornwallHets]  
 Beating lichen-covered oak twigs [Inchcailloch, Stirlingshire. 31 August 1966. EMM114:21-24]  
 Streamside willow [Porth Quin valley, Cornwall. 31 August 2006. CornwallHets]  
 On lichen-covered alders [Donabate, Co Dublin. 3 October 1927. EMM125:206]  
 From whitethorn. In culture fed on Psocidae [Aviemore, Inverness-shire. EMM91:259-262]  
 On lichen-covered sloe (*Prunus spinosa*) [Braunton Burrows, North Devon. July 1959. EMM95:279]  
 On lichen-covered hawthorn [Castle of Kinloch, Isle of Rhum. 1961. TSBE18:91-167]  
 On lichen-covered ash [East Malling, Kent. EMM91:259-262]  
 On lichen-covered hawthorns (*Crataegus*) in woods [Kinloch woods, Isle of Rhum. 1960-1961. EMM97:199-200]  
 On lichen-covered rocks [Loch St Clair, Barra, Outer Hebrides. Brachypters. EMM91:259-262]  
 On lichen-covered sloe (*Prunus spinosa*) along the coast [Padstow area, Cornish coast. 6-13 July 1957. EMM94:24]  
 Beating hazel, sycamore, pine and oak in woods [Westmoreland. July 1954. TSBE15:117-134]  
 On trunks of birch trees in woods [Westmoreland. July 1954. TSBE15:117-134]

*Temnostethus pusillus* (Herrich-Schaeffer) (Anthocoridae)

- Amongst lichens on sycamore in a car park [Helston Boating Lake, Cornwall. 14 June 2005. CornwallHets]  
 Amongst lichens on sycamore [North end of Swanpool, Cornwall. 20 June 2005. CornwallHets]  
 On sycamore [Mullion Car Park, Cornwall. 25 June 2003. CornwallHets]  
 Under mats of lichen (*Xanthoria parietina*) on boulders [Flannan Isles, Scotland. 2 July 1975. Male brachypter and nymphs. EG28:283-284]  
 Garden [Killarney, Kerry. 28 August 1933. EMM125:206]  
 Old apple tree [Pendower House, Lanteglos, Cornwall. 26 August 2006. CornwallHets]  
 On the lower trunk of an ash tree in a garden [Bedfordshire. Adults and nymphs. BJENH17:180]  
 On lichen-covered ash [East Malling, Kent. EMM91:259-262]  
 From spruce (*Abies*) [Isle of Rhum. 1960-1961. EMM97:199-200]  
 On spruce in a plantation [Loch Scresort, Isle of Rhum. 1961-62. TSBE18:91-167]  
 Sweeping oak foliage, or the vegetation beneath, in a wood [Oxleas Wood SSSI, Shooters Hill, West Kent. ERJV102:21-23]  
 On lichen-covered trunks of ash and poplar [Wicken Sedge Fen and St Edmond's Fen, Cambridgeshire. October 1959. EMM95:270]

*Temnostethus pusillus/gracilis* AMBIGUOUS (Anthocoridae)

- On *Quercus* trunk [Harpenden, Hertfordshire. 15 August 1937. LondonHets]  
 On ash [Headley Lane, Surrey. 13 September 1903. LondonHets]  
 On oak [Bettws-y-Coed, Penmaenmawr, North Wales. 1924. EMM61:62-63]  
 On *Fagus* [Botanical Gardens, Edinburgh. EMM14:186-187]

Beating ash [Boxhill, Surrey. September 1912. LondonHets]  
 Under lichen on rocks [Bray Head, Co Wicklow. August 1927. IrelandHets]  
 Under a stone at 500ft [Conachair, St Kilda. 1931. Female brachypter. EMM68:139-145]  
 On a rock on cliffs at 500ft [Conachair, St Kilda. 1931. Male brachypter. EMM68:139-145]  
 On oak [Cumberland. 1916. EMM53:112-113]  
 On oak [Dolgelley and Arthog, Merioneth. 1927. Micropters. EMM64:62-64]  
 On lichen-covered alders [Donabate, Co Dublin. October 1927. IrelandHets]  
 In the gizzards of Blue Tit and Coal Tit [Forest of Dean, Gloucestershire. 1948-1951. Adult. EMM92:68-71]  
 On oaks and other trees [Hartlebury Common LNR, Worcestershire. EMM133:17-26]  
 On aspen [Henham, Suffolk. SuffolkHets]  
 On *Quercus* trunk [Little Gaddesden, Hertfordshire. July 1936. LondonHets]  
 Brushing a hedgerow [Mundesley, Norfolk. September 1925. EMM63:12-13]  
 On oak [Selworthy, Minehead, Somerset. August 1928. EMM65:40-42]  
 Beneath loose bark of pine palings [Suffolk. SuffolkHets]

*Temnostethus tibialis* Reuter (Anthocoridae)

Beating oak [Pamber Forest, Hampshire. 25 June 1970. Female macropter. EMM107:170-171]  
 On the trunk of a felled oak tree [Silwood Park, Sunninghill, Berkshire. 3 July 1964. Male. EMM107:170-171]  
 Crawling on a sap-run on an oak trunk in a wood [Oxleas Wood SSSI, Shooters Hill, West Kent. 9 July 1986. Female macropter. ERJV102:21-23]

*Tetrableps bicuspidis* (Herrich-Schaeffer) (Anthocoridae)

Under larch bark [Farningham Wood, Kent. 6 January 1960. LondonHets]  
 On spruce fir [Ballyhenry, Co Wicklow. 18 February 1934. IrelandHets]  
 Amongst sawdust in a laboratory [Hampstead, Middlesex. 29 June 1943. LondonHets]  
 On larch (*Larix*). Dissected six eggs which showed red markings of late embryo development. Incubated on damp tissue paper, two hatching three days later and another two the day after [University Parks, Oxford. 28 June 2016. Female. BJENH30:191-192]  
 On pines [West Wickham Wood, Kent. 8 July 1899. LondonHets]  
 On larch (*Larix decidua*) [Cranborne, Dorset. 20 July 1960. EMM96:152]  
 On larch [Mickleham Downs, Surrey. 17 July 1948. PTSLENHS1948-49:73-74]  
 On Scots pine [Oxshott Heath, Surrey. 17 July 1960. LondonHets]  
 Beating larch. Dissected ten eggs, all showing late embryo development. Four hatched in culture three to three and a half days later [Sydlings Copse, near Oxford. 20 July 2017. Females. BJENH30:191-192]  
 Sweeping [Blackheath and Farley Heath, Surrey. 30 August 1936. PTSLENHS1936-37:35-36]  
 On pines [Headley Lane, Surrey. 11 September 1904. LondonHets]  
 On larch [Liffey Valley, Co Dublin. 17 September 1929. IrelandHets]  
 On larch [Amersham, Buckinghamshire. 23 September 1951. LondonHets]  
 On pines [West Wickham Wood, Kent. 21 September 1895. LondonHets]  
 On a sickly Brewer's Spruce (*Picea breweriana*) [Little Comberton, Worcestershire. 2 October 2008. EMM145:171]  
 On larch [Amersham, Buckinghamshire. 22 October 1950. LondonHets]  
 Beating *Larix decidua* [Bedfordshire. August 1960. EMM97:32-33]  
 On *Picea abies* [Bedfordshire. August 1960. EMM97:32-33]  
 On larch [Boxhill, Surrey. LondonHets]  
 On fir trees, especially larches [Bromley, Woking, Reigate. Saunders1892]  
 Beating Scots Fir [Cumberland. 1916. EMM53:112-113]  
 From a larch plantation [Near Wymondley, Hertfordshire. August 1880. Adult and nymph. EMM17:234-235]  
 Scotch fir and larch [Nutberry, Dumfriesshire. 1935. EMM72:96]  
 On *Larix* [Rickmansworth, Hertfordshire. LondonHets]  
 On fir trees [Suffolk. 1904. SuffolkHets]

Beating young larch (*Larix decidua*) [Windsor Forest, Berkshire. August 1955. EMM92:47-48]

*Xylocoridea brevipennis* Reuter (Anthocoridae)

Under the bark of hawthorn bushes [Richmond Park, Surrey. 2 March 1898. EMM34:251]

Under bark of *Cossus*-infested alder [Cwrt-yr-ala, Penarth, Glamorgan. 12 October 1930. EMM66:259]

Under sycamore bark [Silwood Park, near Ascot, Berkshire. 28 October 1958. LondonHets]

Under the bark of sycamore (*Acer pseudoplatanus*) [Silwood Park, Sunninghill, Ascot, Berkshire. 29 October 1959. Nymphs. EMM95:89]

Under the bark of sycamore (*Acer pseudoplatanus*) [Silwood Park, Sunninghill, Ascot, Berkshire. 11 November 1958. Males. EMM95:89]

Under the bark of sycamore (*Acer pseudoplatanus*) [Silwood Park, Sunninghill, Ascot, Berkshire. 24 November 1958. Female macropter. EMM95:89]

Under bark of an old apple tree in an orchard [Brent Knoll, Somerset. EMM68:41-42]

Beneath hawthorn bark [Framlingham Castle moat, Suffolk. April 1901. SuffolkHets]

Under the bark of sycamore (*Acer pseudoplatanus*) [Silwood Park, Sunninghill, Ascot, Berkshire. Females. EMM95:89]

*Xylocoris cursitans* (Fallén) (Anthocoridae)

Under the bark of a broken oak branch [Esher Common, Surrey. 27 February 1934.

PTSLENHS1934-35:7]

From a large beech trunk lying in a wood [Higginsmoor Wood, Lanhydrock Estate, East Cornwall. 16 March 1993. BJENH7:36]

Under the bark of logs on which fungus was growing [Oxshott, Surrey. 24 April 1954.

PTSLENHS1954-55:78-79]

Under the bark of a fallen beech (*Fagus sylvatica*) log in gorge woodland. The log was in the early stages of decay, with cambial decay well advanced. The bark was starting to come loose and fungal mycelia were spreading across the cambial layer on the underside of the bark and on the surface of the sapwood [Roslin Glen, near Edinburgh. 7 May 1994. EMM137:76]

Under the bark of a fallen beech [Mungden Wood, near Hurley, Berkshire. 22 May 1991.

EMM130:65-66]

Under bark on beech stump [Boconnoc Park, East Cornwall. 24 June 1989. BJENH6:97-101]

Beneath bark of fallen oak trunk [Bookham Common, Surrey. 21 June 1955. Adult and nymphs. LondonHets]

Oak bough [Lanhydrock Park, Cornwall. 27 June 1989. CornwallHets]

Under bark [Loughton, Epping Forest, Essex. 3 July 1915. LondonHets]

Under beech bark [Ethy Woods, East Cornwall. 14 July 1989. BJENH6:97-101]

Beneath bark on the stump of a recently felled ash, within pasture-woodland [Berth-lwyd Farm, Breconshire. 27 July 1994. Adults. BJENH9:3-5]

From a wood [Fisgarths Wood, Clappergate, Westmorland. 13 August 1991. BJENH5:77]

Under oak bark [Wytham Park, near Oxford. 1 October 1911. Macropters and brachypters. EMM47:278]

Under the bark of sycamore (*Acer pseudoplatanus*) killed by sooty bark disease [Grafham Caravan Park, VC31. 8 November 1996. ERJV109:98-100]

Under bark [Barton Mills/Tuddenham, Suffolk. 19-22 April 1935. EMM71:141-142]

In moss on a poplar [Bildeston, Suffolk. October 1899. SuffolkHets]

Under bark [Broad Oak, near Battle, Sussex. July 1936. EMM72:258-259]

In woodland [Cirencester Park, Gloucestershire. 1983. GloucsHets]

Under bark of a decaying oak (*Quercus*) [City of Lincoln. HN14:11]

Typically found under sappy bark on dead timber of a variety of broad-leaved trees in various ancient pasture woodland sites [Cornwall/Devon. BJENH4:119-121]

Under bark [Reigate. Saunders1892]

Feeding on thrips under the bark of beech [Sevenoaks, Kent. Including macropters.

PTSLENHS1962:123-183]

Under bark [Vicinity of Newton Abbot, South Devon. August 1937. EMM74:20-21]

A good indicator of long-established pasture-woodland sites and ancient woodlands [Wales. BJENH9:3-5]

*Xylocoris flavipes* Reuter (Anthocoridae)

In a corn store [Carmarthen. August 1906. Brachypter. EMM48:187-189]  
Living in a warehouse [England. EMM43:14-15]

*Xylocoris formicetorum* (Boheman) (Anthocoridae)

In nests of *Formica rufa* [Nethy Bridge. 18 May 1909. AntGuests]  
In a small nest of *Formica rufa* [Rannoch. 10 June 1911. Adults and nymphs. AntGuests]  
In *Formica rufa* nests [Rannoch. 19 July 1907. AntGuests]  
In a nest of *Formica rufa* [Westerham, Kent. 17 September 1921. Nymphs. AntGuests]  
In nests of *Formica rufa* [Braemar. EMM11:173-174]  
With *Formica rufa* [Braemar. AntGuests]  
From the nests of *Formica rufa* [Braemar, Scotland. ERJV14:37-40]  
With *Formica rufa* [Bridge of Gairn, Aberdeenshire. July 1915. AntGuests]  
Sieving pine needles and other vegetable refuse of which the nests of *Formica rufa* are constructed. Lives both deep in the nests and also in the upper and central parts [Britain. AntGuests]  
In nests of *Formica rufa* [Glen Lui. AntGuests]  
In nests of *Formica rufa* [Glen Lui and Braemar, Aberdeenshire. 1872. ERJV34:1-5]  
In a nest of *Formica rufa* [Limpsfield Woods, Kent. 1921. Adults and nymphs. ERJV34:1-5]  
In a nest of the wood ant (*Formica rufa* agg.) [Near Loch an Eilein, Cairngorms NNR. July 1968. EMM105:165-166]  
With *Formica rufa* [Nethy Bridge, Scotland. May 1909. ERJV22:15-17]  
With *Formica rufa* [Rannoch, Scotland. 1907. ERJV19:254-256]  
Taken with *Formica rufa* [Rannoch, Scotland. July 1907. Ent40:258-259]  
In the nests of *Formica rufa* [Rannoch, Scotland. ERJV19:229-230]  
In nests of *Formica rufa* [Rannoch, Perthshire. 1907. ERJV34:1-5]  
In ants' nests [Scotland. EMM85:152-156]  
In a nest of *Formica rufa* [Trelleck, near Monmouth, Monmouthshire. Easter weekend 1931 (3-6 April). Nymph. ERJV43:125-126]  
In wood ant nests [Wales. HN9:5]  
In a nest of *Formica rufa* [Westerham, Kent. 1921. Adults and nymphs. AntGuests]  
In ants' nests [Westerham, Kent. EMM85:152-156]

*Xylocoris galactinus* (Fieber) (Anthocoridae)

Sieving the contents of bins containing home-grown wheat and oats in a mill [Crief, Central Perthshire. 13 January 1947. EMM87:45-52]  
Sieving the contents of bins containing home-grown wheat and oats in a mill [Crief, Central Perthshire. 24 March 1947. EMM87:45-52]  
In a suction trap in a field of young winter wheat [Ardington, Berkshire. 11 May 1954. EMM93:121-126]  
In grass heap [Alver Valley, VC11. 12 June 2003. Hem6:234]  
In litter [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. 24 July 1959. LondonHets]  
Aerial netting at 50 ft over a grassy sports field [Cardington, near Bedford. 6 August 1947. PRESL(A)24:128-130]  
Sweeping a mown woodland clearing in the vicinity of stacks of cuttings [Whitecross Green Wood, Oxfordshire/Buckinghamshire. 7 August 2008. BJENH27:11-12]  
In ivy under *Tilia* [Harpenden, Hertfordshire. 11 August 1937. LondonHets]  
On a bus [Between Amersham and Aylesbury, Buckinghamshire. 20 August 1955. LondonHets]  
Aerial netting at 2000 ft over a grassy sports field [Cardington, near Bedford. 19 August 1947. PRESL(A)24:128-130]

- Tapping the overhanging thatch of a large compost heap in partial tree shade beside a car park [Glendurgan Gardens, West Cornwall. 16 September 1993. BJENH13:106-107]  
 In stable refuse [Lewisham, Kent. 2 October 1895. LondonHets]  
 Under sacking on refuse dump [Sundon, Bedfordshire. 15 October 1944. EMM81:183-185]  
 Sieving the contents of bins containing home-grown wheat and oats in a mill [Crief, Central Perthshire. 3 December 1946. EMM87:45-52]  
 Sieving the contents of bins containing home-grown wheat and oats in a mill [Crief, Central Perthshire. 16 December 1946. EMM87:45-52]  
 In a suction trap [Cardington, Bedfordshire. August 1955. Male and female. TRESL112:173-220]  
 In culture with grain samples, first and second instar nymphs were seen to feed on the mites *Tyrolichnus casei*, *Leiodynychus krameri* and *Hypoaspis freemani*. Later instars and adults were seen to feed on larvae of the beetle *Laemophloeus ferrugineus*. The adults were carriers of *Tyroglyphid hypopi* and adult *Cheletomorpha venustissima* [Crief, Central Perthshire. Adults and nymphs. EMM87:45-52]  
 In sedge stacks [Flitwick Moor, Bedfordshire. September 2002. BJENH16:186]  
 Garden refuse [Killarney, North Kerry. IrelandHets]  
 Among the straw in heaps of stable-dung in fields [Near London. Spring and summer. D&S1865]  
 In a deep-pit poultry house [Near Preston, Lancashire. 1976-1978. EMM116:13-15]  
 In marsh haystacks [Oulton Broad, Suffolk. September 1900. SuffolkHets]  
 In marshy places [Plumstead Marshes. Butler1923]  
 In a suction trap [Rothamsted Experimental Station, Harpenden. Males and females. TRESL112:173-220]  
 On cindery ground [Witley Common, Surrey. June 1957/58. Adult. Ent92:6-13]

### Bibliography

#### *Acomporis alpinus* Reuter (Anthocoridae)

- as *A. alpinus* EMM81:253-273, EMM82:94-95  
 as *Acamp. alpinus* EMM91:7-27  
 as *Acomporis alpinus* TSBE11:245-280  
 as *Acomporis alpinus* Butler1923, EMM12:249-250, EMM13:112-113, EMM14:165-167, EMM18:113, EMM19:115-116, EMM23:43-44, EMM25:446-447, EMM74:20-21, EMM82:199-200, EMM90:250, EMM92:47-48, EMM97:32-33, Ent10:9-15, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:22, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:56, Hem3:77, Hem3:86, Hem3:96, Hem4:134, Hem4:148, Hem4:29, Hem4:38, Hem4:41, Hem4:6, Hem4:72, Hem4:88, Hem5:105, Hem5:115, Hem5:122, Hem5:162, Hem5:18, Hem5:194, Hem5:28, Hem5:42, Hem5:5, Hem5:58, Hem6:235, Hem6:244, Hem6:81, HN17/18:26, HSGN1:15, HSGN12:11, HSGN12:12, HSGN4:A7, LondonHets, PTSLENHS1956:111-136, PTSLENHS1962:123-183, S&L1959, Saunders1892, SuffolkHets, Synopsis1875

#### *Acomporis pygmaeus* (Fallén) (Anthocoridae)

- as *A. pygmaeus* EMM81:253-273, EMM82:94-95  
 as *Acamp. pygmaeus* EMM91:7-27  
 as *Acomporis pygmaeus* TSBE11:245-280  
 as *Acomporis pygmaeus* Butler1923, CornwallHets, EG20:125-135, EMM12:249-250, EMM130:77-79, EMM14:165-167, EMM16:12-15, EMM18:113, EMM53:112-113, EMM58:231, EMM61:115-117, EMM64:62-64, EMM69:234-245, EMM71:141-142, EMM72:96, EMM96:152, EMM97:32-33, Ent27:222, Ent92:6-13, GloucsHets, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:22, Hem2:33, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:77, Hem3:96, Hem4:104, Hem4:134, Hem4:30, Hem4:41, Hem4:6, Hem4:72, Hem4:88, Hem5:105, Hem5:115, Hem5:122, Hem5:143, Hem5:162, Hem5:18, Hem5:194, Hem5:206, Hem5:28, Hem5:43, Hem5:5, Hem5:58, Hem5:71, Hem5:95, Hem6:230, Hem6:82, HN17/18:26, HSGN1:15, HSGN10:11, HSGN11:6, HSGN12:12, IrelandHets, LondonHets, PRESL(A)24:128-130, PTSLENHS1936-37:35-36,

PTSLENHS1950-51:71-72, PTSLENHS1950-51:72-73, PTSLENHS1950-51:78-79,  
PTSLENHS1962:123-183, PTSLENHS1963Part2:75-98, S&L1959, Saunders1892,  
SuffolkHets, Synopsis1875, TRESL109:295-310, TRESL112:173-220, TSBE1:51-84,  
TSBE15:117-134, TSBE16:1-48, TSBE18:91-167

*Acomporis pygmaeus/alpinus* AMBIGUOUS (Anthocoridae)

as *Temnostethus lucorum* D&S1865, EMM8:60-63

as *Temnostethus nemoralis* EMM8:60-63

*Amphiareus constrictus* (Stål) (Anthocoridae)

as *Amphiareus constrictus* BJENH32:363-364, Hem4:134, Hem5:132, Hem5:134, Hem6:82,  
HSGN4:A9

as *Lasiochilus sladeni* EMM92:229-230, JSBE6:55-56, PTSLENHS1962:123-183, S&L1959

as *Lasiochilus sladeri* LondonHets

*Anthocoris amplicollis* Horváth (Anthocoridae)

as *Anthocoris amplicollis* BJENH16:186, BJENH25:205-215, EMM118:111-112, EMM119:221-  
223, Hem1:48, Hem1:49, Hem1:7, Hem3:115, Hem3:118, Hem3:123, Hem3:5, Hem3:96,  
Hem4:48, Hem4:6, Hem4:72, Hem4:88, Hem5:105, Hem5:28, Hem5:5, Hem6:82, HN15:10,  
HN19/20:6, HSGN1:18, HSGN1:20, HSGN1:4, HSGN4:A5, HSGN4:A7, HSGN8:9

*Anthocoris butleri* Le Quesne (Anthocoridae)

as *Anth. nemoralis* var. *butleri* EMM91:7-27

as *Anthocoris butleri* EMM119:221-223, EMM129:60, EMM133:79-80, EMM94:180,  
EMM95:96, EMM98:47, ERJV124:24, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96,  
Hem2:33, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:96, Hem4:134, Hem4:30, Hem4:6,  
Hem4:72, Hem4:88, Hem5:106, Hem5:136, Hem5:151, Hem5:212, Hem5:5, Hem5:58,  
Hem5:71, Hem6:235, Hem6:83, HN11:14, HN15:13, HN21:8, HN9:2, HSGN1:13, HSGN1:19,  
HSGN9:6, JSBE6:55-56, LondonHets, PTSLENHS1962:123-183, S&L1959

as *Anthocoris nemoralis butleri* EMM119:221-223, EMM90:36-40, EMM94:125-127,  
EMM94:180

*Anthocoris confusus* Reuter (Anthocoridae)

as *A. confusus* EMM81:253-273, EMM82:94-95

as *Anth. confusus* EMM91:7-27

as *Anthocoris confusus* BJENH18:233-252, BJENH20:49-55, BJENH28:5-15, BJENH30:78,  
Butler1923, CornwallHets, EcolEnt1:157-161, EcolEnt1:163-169, EcolEnt1:283-286,  
EcolEnt1:85-90, EcolEnt9:55-67, EG20:125-135, EG43:221-226, EG60:37-71, EMM110:122,  
EMM113:139-146, EMM114:21-24, EMM118:111-112, EMM119:221-223, EMM133:17-26,  
EMM25:427-428, EMM26:236, EMM29:92-93, EMM30:64-65, EMM32:60-62, EMM43:233,  
EMM48:187-189, EMM53:112-113, EMM61:115-117, EMM61:62-63, EMM64:218,  
EMM64:62-64, EMM65:40-42, EMM69:234-245, EMM72:96, EMM81:183-185,  
EMM87:255, EMM88:162, EMM88:51-62, EMM90:36-40, EMM92:35, EMM92:68-71,  
EMM94:125-127, EMM94:180, EMM96:17, EMM98:1-3, EMM98:207, Ent86:34-40,  
ERJV51:160-161, GloucsHets, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15,  
Hem2:33, Hem2:42, Hem3:106, Hem3:115, Hem3:118, Hem3:26, Hem3:27, Hem3:43,  
Hem3:5, Hem3:54, Hem3:77, Hem3:86, Hem4:104, Hem4:126, Hem4:134, Hem4:30,  
Hem4:38, Hem4:6, Hem4:72, Hem4:88, Hem5:106, Hem5:115, Hem5:122, Hem5:162,  
Hem5:18, Hem5:194, Hem5:206, Hem5:28, Hem5:43, Hem5:5, Hem5:58, Hem5:71, Hem5:95,  
Hem6:231, Hem6:83, HN17/18:26, HN17/18:7, HSGN1:12, HSGN1:14, HSGN1:20,  
HSGN1:21, HSGN1:8, HSGN10:11, HSGN11:6, HSGN12:13, HSGN13:10, HSGN3:11,  
IrelandHets, JSBE5:179-186, LondonHets, PRESL(A)13:19-24, PRESL(A)42:107-118,  
PTSLENHS1949-50:36-38, PTSLENHS1952-53:49-50, PTSLENHS1952-53:73,  
PTSLENHS1952-53:78-79, PTSLENHS1961:62-73, PTSLENHS1961:75-76,  
PTSLENHS1962:123-183, PTSLENHS1963Part2:75-98, PTSLENHS1964:36,

PTSLENHS1967:90-92, S&L1959, Saunders1892, SuffolkHets, TRESL109:295-310, TRESL109:379-394, TRESL112:173-220, TRESL113:41-54, TRESL114:67-95, TSBE1:51-84, TSBE10:45-142, TSBE11:245-280, TSBE15:117-134, TSBE16:245-256, TSBE18:35-48, TSBE18:91-167, TSBE19:173-235

as *Anthocoris confusus confusus* EMM90:36-40, EMM92:221-225, EMM92:54-64, EMM94:93

*Anthocoris gallarumulmi* (De Geer) (Anthocoridae)

as *A. gallarum-ulmi* EMM81:253-273

as *Anth. gallarum-ulmi* EMM91:7-27

as *Anthocoris gallarum ulmi* EMM28:290, Ent86:34-40, Saunders1892

as *Anthocoris gallarumulmi* EMM119:221-223, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:22, Hem2:33, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem4:104, Hem4:134, Hem4:30, Hem4:41, Hem4:6, Hem4:72, Hem4:88, Hem5:106, Hem5:122, Hem5:162, Hem5:18, Hem5:194, Hem5:28, Hem5:43, Hem5:5, Hem5:58, Hem5:71, Hem5:95, Hem6:271, Hem6:277, Hem6:83, HN17/18:26, HN6:2, HN9:7, PRESL(A)42:107-118, PTSLENHS1962:123-183, PTSLENHS1963Part2:75-98, PTSLENHS1966:34

as *Anthocoris gallarum-ulmi* Butler1923, CornwallHets, EcolEnt9:55-67, EG20:125-135, EMM107:11-12, EMM43:233, EMM51:145-146, EMM61:62-63, EMM63:42, EMM81:183-185, EMM83:290-292, EMM86:6-8, EMM88:51-62, EMM88:xxxv, EMM90:36-40, EMM90:99-102, EMM92:35, EMM94:125-127, EMM94:180, EMM98:263, GloucsHets, HantsHets, HSGN1:21, HSGN10:12, HSGN11:7, HSGN12:13, HSGN13:10, IrelandHets, JSBE5:179-186, LondonHets, PTSLENHS1952-53:11, PTSLENHS1952-53:73, PTSLENHS1961:62-73, S&L1959, TRESL109:295-310, TRESL112:173-220, TRESL114:67-95, TSBE1:51-84, TSBE11:245-280, TSBE15:117-134, TSBE16:1-48

*Anthocoris limbatus* Fieber (Anthocoridae)

as *A. limbatus* EMM81:253-273

as *Anth. limbatus* EMM91:7-27

as *Anthocoris limbatus* Butler1923, CornwallHets, EG20:125-135, EMM119:221-223, EMM43:233, EMM47:94, EMM90:36-40, EMM90:96, EMM94:125-127, EMM95:96, Ent101:268, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem3:124, Hem3:125, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:77, Hem3:86, Hem3:96, Hem4:105, Hem4:134, Hem4:30, Hem4:6, Hem4:72, Hem4:88, Hem5:106, Hem5:139, Hem5:143, Hem5:151, Hem5:194, Hem5:206, Hem5:5, Hem5:58, Hem6:277, Hem6:84, HN11:14, HN21:9, HN6:2, HSGN1:19, HSGN3:10, IrelandHets, LondonHets, PTBENHS20:67, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280

*Anthocoris minki* Dohrn (Anthocoridae)

as *Anthocoris minki* BJENH14:185-194, BJENH17:181-182, BJENH25:205-215, BJENH31:30, BJENH7:28-29, EMM119:221-223, ERJV112:185-186, Hem1:48, Hem1:49, Hem1:7, Hem2:5, Hem3:111, Hem3:112, Hem3:115, Hem3:116, Hem3:118, Hem3:123, Hem3:5, Hem4:134, Hem4:6, Hem4:72, Hem5:106, Hem5:147, Hem5:194, Hem5:5, Hem6:253, Hem6:84, HSGN1:21, HSGN1:4, HSGN4:A5, HSGN4:A7, HSGN4:A9, HSGN8:9, PTBENHS18:20

as *Anthocoris minki minki* BJENH20:191-192, EMM119:221-223, Hem6:222, HN9:14

*Anthocoris nemoralis* (Fabricius) (Anthocoridae)

as *A. nemoralis* EMM81:253-273

as *Acanthocoris nemoralis* Ent27:222

as *Anth. nemoralis* EMM91:7-27

as *Anthocoris nemoralis* BJENH18:233-252, BJENH20:191-192, BJENH20:49-55, BJENH28:5-15, Butler1923, CornwallHets, EcolEnt9:55-67, EG20:125-135, EG43:221-226, EG60:37-71, EG64:146-165, EMM102:285-286, EMM110:122, EMM113:139-146, EMM119:221-223, EMM119:49, EMM133:17-26, EMM136:147, EMM147:105-110, EMM26:236, EMM29:35-37, EMM29:92-93, EMM43:233, EMM48:187-189, EMM53:112-113, EMM54:252-253, EMM64:218, EMM64:62-64, EMM68:231-232, EMM69:234-245, EMM73:234-235,

EMM81:183-185, EMM85:249-253, EMM88:22, EMM88:51-62, EMM89:17, EMM90:36-40, EMM90:40, EMM90:99-102, EMM92:313-325, EMM92:35, EMM92:54-64, EMM92:68-71, EMM93:49-51, EMM94:180, EMM94:183, EMM94:93, EMM95:96, EMM96:144, EMM98:1-3, EMM98:207, Ent101:202-204, Ent112:10-16, Ent47:146-147, Ent59:84-85, GloucsHets, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:33, Hem3:106, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:77, Hem3:86, Hem3:96, Hem4:105, Hem4:134, Hem4:148, Hem4:30, Hem4:38, Hem4:6, Hem4:72, Hem4:88, Hem5:106, Hem5:115, Hem5:122, Hem5:139, Hem5:162, Hem5:18, Hem5:189, Hem5:194, Hem5:206, Hem5:29, Hem5:43, Hem5:5, Hem5:58, Hem5:71, Hem5:95, Hem6:231, Hem6:263, Hem6:84, HN17/18:26, HSGN1:12, HSGN1:14, HSGN1:19, HSGN1:20, HSGN1:21, HSGN1:8, HSGN10:11, HSGN10:9, HSGN11:6, HSGN11:9, HSGN12:11, HSGN12:12, HSGN3:11, IrelandHets, JSBE5:179-186, LondonHets, PRESL(A)42:107-118, PSLENHS1931-32:55, PTBENHS15:31-32, PTBENHS16:50-52, PTBENHS4:83-88, PTSLENHS1934-35:7-8, PTSLENHS1949-50:36-38, PTSLENHS1949-50:70-71, PTSLENHS1951-52:68-69, PTSLENHS1951-52:72-73, PTSLENHS1961:62-73, PTSLENHS1962:123-183, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TRESL109:295-310, TRESL112:173-220, TRESL113:41-54, TRESL114:67-95, TSBE1:51-84, TSBE11:245-280, TSBE15:117-134, TSBE16:245-256, TSBE18:91-167, TSBE2:47-67, TSBE6:115-136

as *Anthocoris nemoralis nemoralis* EMM119:221-223, EMM90:36-40, EMM94:125-127

as *Anthocoris nemoralis* var. *superbus* Butler1923, PTSLENHS1962:123-183, TSBE11:245-280

*Anthocoris nemoralis/confusus* AMBIGUOUS (Anthocoridae)

as *Anthocoris austriacus* EMM8:60-63

as *Anthocoris nemoralis* D&S1865, EMM14:165-167, EMM16:12-15, EMM21:19-20, EMM26:81-82, EMM8:60-63

*Anthocoris nemorum* (Linnaeus) (Anthocoridae)

as *A. nemorum* EMM81:253-273, EMM82:94-95

as *Acanthocoris nemorum* Ent27:222

as *Anth. nemorum* EMM91:7-27

as *Anthocoris nemorum* BJENH13:106-107, BJENH17:212-216, BJENH17:39-44, BJENH18:233-252, BJENH20:49-55, BJENH21:205-214, BJENH28:5-15, BJENH31:30, BJENH32:239-240, BJENH9:111-115, Butler1923, CornwallHets, D&S1865, EcolEnt1:157-161, EcolEnt1:85-90, EcolEnt31:162-171, EcolEnt9:55-67, EG20:125-135, EG25:45-51, EG43:221-226, EG60:37-71, EG64:146-165, EMM102:285-286, EMM103:184-186, EMM106:71-73, EMM107:11-12, EMM109:132-139, EMM109:252-254, EMM113:139-146, EMM114:21-24, EMM115:139-144, EMM117:98, EMM119:221-223, EMM120:253-258, EMM126:96, EMM126:96, EMM126:96, EMM133:17-26, EMM136:77-83, EMM14:165-167, EMM140:247-250, EMM141:248, EMM143:7-10, EMM146:36, EMM149:165-180, EMM16:141, EMM17:234-235, EMM25:237-238, EMM26:236, EMM26:81-82, EMM28:230-232, EMM32:60-62, EMM43:233, EMM48:187-189, EMM53:112-113, EMM54:252-253, EMM60:37-39, EMM61:115-117, EMM61:62-63, EMM63:42, EMM64:218, EMM64:62-64, EMM65:103-104, EMM65:40-42, EMM69:234-245, EMM73:234-235, EMM73:235, EMM80:201-203, EMM81:12, EMM81:183-185, EMM85:249-253, EMM86:6-8, EMM88:162, EMM88:22, EMM88:51-62, EMM89:17, EMM89:216, EMM90:36-40, EMM90:99-102, EMM90:xxxix, EMM91:143, EMM91:237, EMM91:283, EMM92:198, EMM92:21, EMM92:221-225, EMM92:313-325, EMM92:35, EMM92:54-64, EMM94:125-127, EMM94:180, EMM94:93, EMM95:xix, EMM96:144, EMM98:1-3, EMM98:207, EMM99:157-161, Ent101:202-204, Ent112:10-16, Ent34:135, Ent47:146-147, Ent71:156-160, Ent86:34-40, Ent87:25-30, Ent88:89-91, Ent89:220-222, Ent89:223-231, Ent96:225-236, Ent98:14-31, ERJV101:47-49, ERJV123:156, ERJV37:58-59, ERJV71:217-220, ERJV93:148-149, GloucsHets, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:33, Hem3:106, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:54, Hem3:77, Hem3:86, Hem4:105, Hem4:134, Hem4:19, Hem4:30, Hem4:6, Hem4:72, Hem4:88, Hem5:106, Hem5:122, Hem5:139, Hem5:162, Hem5:18, Hem5:189, Hem5:194, Hem5:206, Hem5:29, Hem5:43, Hem5:5, Hem5:58, Hem5:71,

Hem5:95, Hem6:85, HN17/18:26, HN17/18:7, HSGN1:12, HSGN1:14, HSGN1:19, HSGN1:7, HSGN1:8, HSGN1:9, HSGN10:11, HSGN10:4, HSGN10:9, HSGN11:6, HSGN11:9, HSGN12:11, HSGN12:12, HSGN13:10, HSGN3:11, HSGN3:11a, IrelandHets, JoE(A)49:173-178, JSBE1:131-141, JSBE5:179-186, LondonHets, PESL1880:xxix-xxx, PRESL(A)15:1-11, PRESL(A)24:128-130, PRESL(A)35:39-46, PRESL(A)42:107-118, PTBENHS11:130, PTBENHS11:66-67, PTBENHS11:67-68, PTBENHS15:31-32, PTBENHS16:50-52, PTBENHS17:37-39, PTSLENHS1934-35:7-8, PTSLENHS1949-50:36-38, PTSLENHS1951-52:68-69, PTSLENHS1951-52:81, PTSLENHS1952-53:78-79, PTSLENHS1953-54:4, PTSLENHS1956:111-136, PTSLENHS1959:91, PTSLENHS1961:62-73, PTSLENHS1961:75-76, PTSLENHS1962:123-183, PTSLENHS1962:97-98, PTSLENHS1962:99-100, PTSLENHS1963Part1:67, PTSLENHS1963Part2:75-98, PTSLENHS1964:36, PTSLENHS1965:86-87, S&L1959, Synopsis1875, TRESL109:295-310, TRESL109:379-394, TRESL112:173-220, TRESL113:41-54, TRESL114:67-95, TRESL74:243-254, TSBE1:51-84, TSBE10:45-142, TSBE11:245-280, TSBE15:117-134, TSBE16:245-256, TSBE18:91-167, TSBE19:173-235, TSBE2:47-67, TSBE6:115-136  
 as *Anthocoris sylvestris* EMM29:35-37, EMM32:153-155, EMM39:121-123, EMM43:196-202, EMM43:233, EMM65:111, Ent47:215-218, Ent49:246-248, Ent74:247-254, PSLENHS1900:15-16, PSLENHS1905-06:52-53, PSLENHS1914-15:100, Saunders1892, SuffolkHets, THES4:14-15, TRESL55:323-408

*Anthocoris pilosus* (Jakovlev) (Anthocoridae)

as *Anthocoris pilosus* BJENH25:205-215, EMM119:221-223, EMM94:125-127, Hem1:48, Hem1:49, Hem1:7, Hem3:5, Hem3:77, Hem3:86, Hem3:91, Hem4:6, Hem5:106, Hem5:162, Hem5:5, Hem6:85, HSGN1:14, HSGN1:18, S&L1959  
 as *Anthocoris sibiricus* EMM119:221-223, HSGN1:20, HSGN1:4, HSGN4:A9

*Anthocoris sarothamni* Douglas & Scott (Anthocoridae)

as *A. sarothamni* EMM81:253-273, EMM82:94-95  
 as *Anth. sarothamni* EMM91:7-27  
 as *Anthocoris nemoralis* var. *sarothamni* Synopsis1875  
 as *Anthocoris sarothami* EcolEnt1:157-161  
 as *Anthocoris sarothamni* BJENH23:204, Butler1923  
 as *Anthocoris Sarothamni* D&S1865  
 as *Anthocoris sarothamni* EcolEnt1:157-161, EG60:37-71, EMM119:221-223, EMM133:17-26, EMM14:186-187, EMM16:12-15, EMM20:189-190, EMM21:24, EMM25:427-428, EMM26:236, EMM29:92-93, EMM54:132-136, EMM69:234-245, EMM7:184-185, EMM83:95, EMM86:6-8, EMM90:36-40, EMM94:125-127, EMM95:68, EMM98:1-3, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:22, Hem3:106, Hem3:26, Hem3:27, Hem3:43, Hem3:5, Hem3:77, Hem3:96, Hem4:105, Hem4:134, Hem4:148, Hem4:30, Hem4:41, Hem4:6, Hem4:72, Hem4:88, Hem5:106, Hem5:139, Hem5:156, Hem5:162, Hem5:18, Hem5:194, Hem5:29, Hem5:43, Hem5:5, Hem5:58, Hem6:271, Hem6:85, HN17/18:26, HSGN1:13, HSGN1:20, HSGN1:21, HSGN10:12, HSGN11:7, HSGN11:9, HSGN12:12, HSGN13:11, IrelandHets, LondonHets, PESL1884:xi, PRESL(A)35:39-46, PRESL(A)42:107-118, PSLENHS1898:16-23, PTSLENHS1962:123-183, S&L1959, Saunders1892, SuffolkHets, TRESL109:295-310, TRESL113:41-54, TRESL114:67-95, TSBE11:245-280, TSBE16:245-256, TSBE18:35-48, TSBE2:47-67

*Anthocoris simulans* Reuter (Anthocoridae)

as *Anth. confusus* var. *chinai* EMM91:7-27  
 as *Anthocoris confusus chinai* EMM90:36-40, EMM94:125-127  
 as *Anthocoris minki* EG20:125-135, EMM104:22, EMM94:125-127, EMM94:280, EMM96:17, EMM97:32-33, EMM98:1-3, JSBE6:55-56, LondonHets, PRESL(A)42:107-118, PTSLENHS1962:123-183, S&L1959, TRESL114:67-95, TSBE15:117-134  
 as *Anthocoris simulans* BJENH20:191-192, BJENH25:205-215, EMM119:221-223, ERJV112:185-186, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:22, Hem2:46, Hem2:5,

Hem3:111, Hem3:115, Hem3:116, Hem3:118, Hem3:26, Hem3:27, Hem3:5, Hem3:77, Hem4:105, Hem4:134, Hem4:144, Hem4:30, Hem4:42, Hem4:6, Hem4:72, Hem4:88, Hem5:106, Hem5:151, Hem5:156, Hem5:194, Hem5:206, Hem5:29, Hem5:5, Hem5:58, Hem6:255, Hem6:277, Hem6:86, HN11:14, HN19/20:6, HN21:9, HN22:12, HN9:14, HSGN1:21, HSGN1:4, HSGN3:10, HSGN4:4, HSGN4:A5, HSGN4:A7, HSGN4:A9, LondonHets

*Anthocoris visci* Douglas (Anthocoridae)

as *A. visci* EMM81:253-273

as *Anth. visci* EMM91:7-27

as *Anthocoris visci* BJENH12:237-239, BJENH20:191-192, Butler1923, EG43:303-304, EMM119:221-223, EMM137:95-105, EMM150:240, EMM25:427-428, EMM25:459, EMM26:236, EMM69:234-245, EMM78:39, EMM83:55, EMM90:36-40, EMM94:125-127, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:48, Hem3:17, Hem3:5, Hem3:96, Hem4:134, Hem4:150, Hem4:151, Hem4:30, Hem4:6, Hem4:72, Hem5:106, Hem5:156, Hem5:194, Hem5:5, Hem5:95, Hem6:86, HN17/18:21, HN7:13, HN9:4, HN9:6, HN9:7, HSGN1:20, HSGN12:7, HSGN13:11, HSGN6:8, HSGN7:5, HSGN8:9, LondonHets, PESL1889:xlvi, PTSLENHS1962:123-183, PTSLENHS1963Part1:18, S&L1959, Saunders1892, TSBE11:245-280

*Brachysteles parvicornis* (A. Costa) (Anthocoridae)

as *B. parvicornis* EMM81:253-273, EMM82:94-95

as *Brach. parvicornis* EMM91:7-27

as *Brachysteles parvicornis* Butler1923, EG60:37-71, EMM42:162-163, EMM43:253-254, EMM62:39-40, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:42, Hem3:43, Hem3:6, Hem4:134, Hem4:144, Hem4:30, Hem4:6, Hem4:72, Hem5:106, Hem5:194, Hem5:29, Hem5:43, Hem5:6, Hem5:6, Hem6:86, HN10:6, HN19/20:11, HN8:12, HSGN8:9, PTBENHS17:18, PTSLENHS1962:123-183, S&L1959, Saunders1892, SuffolkHets, TSBE11:245-280

as *Brachysteles pilicornis* D&S1865, EMM14:164, EMM25:446-447, Synopsis1875

as *Bracysteles parvicornis* LondonHets

*Buchananiella continua* (F.B. White) (Anthocoridae)

as *Buchananiella continua* BJENH12:221-223, BJENH16:186, BJENH18:208, BJENH25:205-215, BJENH27:219-220, BJENH31:25-26, EMM141:124, EMM141:166, EMM141:248, EMM142:22, Hem1:48, Hem1:49, Hem1:7, Hem2:33, Hem2:48, Hem3:106, Hem3:6, Hem3:77, Hem3:86, Hem3:96, Hem4:105, Hem4:30, Hem4:53, Hem4:55, Hem4:59, Hem4:62, Hem4:72, Hem4:88, Hem5:106, Hem5:122, Hem5:13, Hem5:156, Hem5:194, Hem5:29, Hem5:43, Hem5:6, Hem5:95, Hem6:254, Hem6:256, Hem6:87, HN11:15, HN12:18, HN13:11, HN14:10, HN14:8, HN15:10, HN17/18:26, HN19/20:10, HN4:3, HN8:12, HN9:12, HN9:16

*Cardiastethus fasciiventris* (Garbiglietti) (Anthocoridae)

as *C. fasciiventris* EMM81:253-273

as *Card. fasciiventris* EMM91:7-27

as *Cardiastethes fascii-ventris* TRESL109:295-310

as *Cardiastethus* HN14:8

as *Cardiastethus fasciiventris* BJENH12:221-223, BJENH18:233-252, BJENH27:219-220, BJENH4:119-121, Butler1923, CornwallHets, EG20:125-135, EG60:37-71, EMM133:175-176, EMM133:261-262, EMM134:265-266, EMM147:105-110, EMM151:176, EMM35:117, EMM68:41-42, EMM69:105-106, EMM71:141-142, EMM71:159-161, EMM71:92-93, EMM72:210-219, EMM91:282-283, EMM93:49-51, EMM96:152, ERJV109:98-100, ERJV123:156, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:15, Hem2:33, Hem2:46, Hem3:101, Hem3:106, Hem3:43, Hem3:6, Hem3:77, Hem3:86, Hem3:96, Hem4:105, Hem4:126, Hem4:134, Hem4:30, Hem4:38, Hem4:53, Hem4:55, Hem4:56, Hem4:6, Hem4:72, Hem5:106, Hem5:122, Hem5:13, Hem5:151, Hem5:156, Hem5:194, Hem5:29, Hem5:43,

Hem5:58, Hem5:6, Hem5:71, Hem5:95, Hem6:230, Hem6:231, Hem6:254, Hem6:256,  
Hem6:87, HN11:14, HN11:15, HN8:11, HSGN10:3, LondonHets, PSLENHS1903:66,  
PTSLENHS1962:123-183, S&L1959, SuffolkHets, TSBE11:245-280

as *Cardiastethus fascii-ventris* HantsHets, Saunders1892

as *Cardiastethus fasciventris* Ent37:26

as *Cardiastethus rufescens* EMM69:234-245

as *Cardiastethus testaceus* D&S1865, EMM23:139-140, Synopsis1875

as *Cardiostethus testaceus* EMM9:119

*Dufouriellus ater* (Dufour) (Anthocoridae)

as *D. ater* EMM81:253-273, EMM82:94-95

as *Duf. ater* EMM91:7-27

as *Dufouriellus* EMM85:152-156

as *Dufouriellus ater* BJENH12:179, BJENH12:221-223, EG20:125-135, EMM129:60,  
EMM130:65-66, EMM91:282-283, EMM95:96, ERJV109:98-100, GloucsHets, Hem1:48,  
Hem1:49, Hem1:7, Hem1:97, Hem2:33, Hem3:106, Hem3:26, Hem3:27, Hem3:6, Hem3:77,  
Hem4:105, Hem4:134, Hem4:30, Hem4:38, Hem4:42, Hem4:72, Hem4:88, Hem5:106,  
Hem5:122, Hem5:189, Hem5:194, Hem5:29, Hem5:43, Hem5:58, Hem5:6, Hem6:87,  
HN13:10, HN14:11, HN17/18:26, HN9:5, JSBE5:179-186, LondonHets,  
PTSLENHS1962:123-183, S&L1959, TSBE11:245-280

as *Xylocoris ater* Butler1923, D&S1865, EMM16:12-15, EMM20:19, EMM69:234-245,  
EMM7:184-185, Ent71:148-153, HantsHets, Saunders1892, SuffolkHets, Synopsis1875,  
TSBE2:47-67

*Elatophilus nigricornis* (Zetterstedt) (Anthocoridae)

as *E. nigricornis* EMM81:253-273

as *Elat. nigricornis* EMM91:7-27

as *Elatophilus nigricornis* Butler1923, EMM100:87, EMM105:165-166, EMM107:166,  
EMM29:92-93, EMM81:118, EMM81:47, EMM88:45, EMM89:279, EMM90:205,  
EMM91:116, EMM92:47-48, Ent95:137-143, HantsHets, Hem1:48, Hem1:49, Hem1:7,  
Hem1:96, Hem2:33, Hem3:43, Hem3:6, Hem4:134, Hem4:6, Hem4:72, Hem4:88, Hem5:106,  
Hem5:162, Hem5:18, Hem5:194, Hem5:29, Hem5:58, Hem5:6, Hem5:71, Hem6:244,  
Hem6:254, Hem6:256, Hem6:88, HN11:14, HN11:16, HN13:11, HN14:11, HN17/18:26,  
HN9:14, HSGN12:13, HSGN12:2, LondonHets, PRESL(A)13:19-24, PRESL(A)23:1-8,  
PSLENHS1898:16-23, PTSLENHS1956:111-136, PTSLENHS1962:123-183,  
PTSLENHS1964:10, S&L1959, Saunders1892, TRESL109:295-310, TRESL89:79-131,  
TSBE11:245-280, TSBE16:1-48

as *Temnostethus nigricornis* EMM13:85-86, EMM14:165-167, EMM14:186-187, EMM23:43-44,  
Ent10:9-15, Synopsis1875

*Lyctocoris campestris* (Fabricius) (Anthocoridae)

as *L. campestris* EMM81:253-273

as *Lyct. campestris* EMM91:7-27

as *Lyctocoris campestris* BJENH12:193-213, BJENH16:186, Butler1923, CornwallHets,  
EG20:125-135, EG25:45-51, EMM109:236-237, EMM115:139-144, EMM116:13-15,  
EMM124:193-194, EMM126:96, EMM14:165-167, EMM26:81-82, EMM32:153-155,  
EMM48:187-189, EMM52:66, EMM63:41-42, EMM67:35-36, EMM68:213-214,  
EMM68:231-232, EMM69:234-245, EMM73:234-235, EMM8:60-63, EMM85:152-156,  
EMM85:249-253, EMM87:250, EMM87:44, EMM89:17, EMM90:40, EMM92:54-64,  
EMM93:121-126, EMM93:49-51, Ent27:222, Ent47:146-147, Ent71:148-153, Ent86:34-40,  
ERJV101:47-49, ERJV123:156, GloucsHets, HantsHets, Hem1:48, Hem1:49, Hem1:7,  
Hem1:96, Hem2:15, Hem2:33, Hem3:106, Hem3:26, Hem3:27, Hem3:43, Hem3:6, Hem3:77,  
Hem4:105, Hem4:134, Hem4:30, Hem4:38, Hem4:6, Hem4:73, Hem4:88, Hem5:106,  
Hem5:122, Hem5:139, Hem5:162, Hem5:18, Hem5:194, Hem5:206, Hem5:29, Hem5:43,  
Hem5:58, Hem5:6, Hem5:72, Hem5:95, Hem6:277, Hem6:88, HN17/18:26, HSGN1:15,

HSGN10:12, HSGN11:7, HSGN13:11, HSGN4:6, IrelandHets, JSBE5:179-186, LondonHets, PRESL(A)22:30-33, PTSLENHS1950-51:44-45, PTSLENHS1962:123-183, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TRESL109:295-310, TRESL112:173-220, TSBE1:51-84, TSBE11:245-280, TSBE18:91-167, TSBE19:173-235, TSBE2:47-67

as *Lyctocoris domestica* EMM28:230-232

as *Lyctocoris domesticus* D&S1865, EMM8:60-63

as *Lyctoris campestris* ERJV47:69-71

*Orius horvathi* (Reuter) (Anthocoridae)

as *Orius horvathi* BJENH28:95, BJENH32:363-364, Hem3:101, Hem5:131, Hem5:133, Hem5:151, Hem6:88, HN22:2

*Orius laevigatus* (Fieber) (Anthocoridae)

as *O. laevigatus* EMM81:253-273, EMM82:94-95

as *Or. laevigatus* EMM91:7-27

as *Orius laevigatus* CornwallHets, EG60:37-71, EMM104:22, EMM81:163-164, EMM81:183-185, EMM81:253-273, EMM89:17, EMM90:250, EMM91:282-283, EMM92:54-64, EMM93:49-51, EMM95:96, EMM96:214, Ent104:258-259, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:16, Hem2:33, Hem2:42, Hem3:106, Hem3:15, Hem3:26, Hem3:27, Hem3:43, Hem3:6, Hem3:77, Hem3:86, Hem4:105, Hem4:134, Hem4:30, Hem4:39, Hem4:42, Hem4:45, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:122, Hem5:156, Hem5:194, Hem5:206, Hem5:29, Hem5:43, Hem5:58, Hem5:6, Hem5:72, Hem6:235, Hem6:263, Hem6:277, Hem6:283, Hem6:89, HN7:15, HSGN1:13, HSGN11:10, JSBE5:179-186, LondonHets, PTSLENHS1961:62-73, PTSLENHS1962:123-183, PTSLENHS1965:56-57, S&L1959, TSBE11:245-280

as *Triphleps laevigata* EMM75:29-31, EMM75:79

*Orius laticollis* (Reuter) (Anthocoridae)

as *Orius laticollis* BJENH19:34-37, BJENH20:123-125, BJENH25:205-215, Ent104:258-259, Hem1:48, Hem1:49, Hem1:7, Hem2:33, Hem2:46, Hem2:5, Hem3:124, Hem3:125, Hem3:26, Hem3:27, Hem3:43, Hem3:58, Hem3:6, Hem3:60, Hem3:61, Hem3:65, Hem3:77, Hem3:86, Hem3:96, Hem4:105, Hem4:134, Hem4:144, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:194, Hem5:206, Hem5:6, Hem6:89, HN11:14, HN6:2, HN9:15, HSGN1:5, HSGN3:10, HSGN4:A5

*Orius majusculus* (Reuter) (Anthocoridae)

as *O. majusculus* EMM81:253-273

as *Or. majusculus* EMM91:7-27

as *Orius majusculus* BJENH17:181-182, CornwallHets, EG20:125-135, EG48:23-33, EMM73:235, EMM92:35, Ent104:258-259, Ent86:34-40, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:16, Hem2:33, Hem3:106, Hem3:26, Hem3:27, Hem3:43, Hem3:6, Hem3:77, Hem3:86, Hem4:105, Hem4:135, Hem4:30, Hem4:42, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:122, Hem5:143, Hem5:18, Hem5:195, Hem5:206, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem5:72, Hem5:95, Hem6:231, Hem6:89, HN17/18:26, HSGN1:13, HSGN4:A7, JSBE5:179-186, LondonHets, PRESL(A)24:128-130, PTSLENHS1949-50:36-38, PTSLENHS1959:91, PTSLENHS1961:62-73, PTSLENHS1962:123-183, PTSLENHS1963Part1:67, PTSLENHS1964:36, S&L1959, TRESL109:295-310, TRESL112:173-220, TSBE11:245-280

as *Triphleps majuscula* Butler1923, EMM65:40-42, EMM69:234-245, EMM71:141-142, EMM75:29-31, EMM75:79, EMM81:183-185, Ent50:64-66, ERJV47:13-14, HantsHets, PTSLENHS1936-37:39-40, SuffolkHets, TSBE1:51-84, TSBE2:47-67, TSBE6:115-136

as *Triphleps majusculus* EMM16:12-15, EMM32:153-155, EMM71:162-163, Saunders1892

*Orius niger* (Wolff) (Anthocoridae)

as *O. nigra* EMM81:253-273, EMM82:94-95

- as *Or. niger* EMM91:7-27
- as *Orius niger* BJENH17:39-44, BJENH20:49-55, BJENH28:5-15, BJENH31:231-237, CornwallHets, EG20:125-135, EG60:37-71, EMM103:22, EMM109:132-139, EMM120:253-258, EMM133:17-26, EMM81:183-185, EMM86:6-8, Ent104:258-259, Ent86:34-40, Ent92:6-13, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:16, Hem2:33, Hem2:46, Hem3:15, Hem3:26, Hem3:27, Hem3:43, Hem3:52, Hem3:6, Hem3:77, Hem3:86, Hem4:105, Hem4:135, Hem4:30, Hem4:39, Hem4:45, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:122, Hem5:151, Hem5:195, Hem5:206, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem5:72, Hem5:95, Hem6:230, Hem6:231, Hem6:260, Hem6:272, Hem6:90, HN17/18:26, HN22:5, HN6:2, HSGN1:12, HSGN11:10, JSBE5:179-186, PTBENHS11:67-68, PTBENHS16:50-52, PTSLENHS1949-50:36-38, PTSLENHS1961:62-73, PTSLENHS1962:123-183, PTSLENHS1963Part2:75-98, PTSLENHS1965:56-57, PTSLENHS1967:26-28, S&L1959, TRESL109:295-310, TRESL112:173-220, TSBE11:245-280
- as *Orius niger compressicornis* EMM109:89-98, LondonHets
- as *Triphleps nigra* EMM58:231, EMM75:29-31, EMM75:79
- Orius niger/laevigatus* AMBIGUOUS (Anthocoridae)
- as *Orius niger* CornwallHets
- as *Orius niger compressicornis* LondonHets
- as *Triphleps niger* D&S1865, EMM16:12-15, EMM18:113, PTSLENHS1937-38:49-50, Saunders1892, Synopsis1875
- as *Triphleps niger* var. *obscurus* Synopsis1875
- as *Triphleps nigra* Butler1923, EMM61:207, EMM65:40-42, EMM69:234-245, HantsHets, IrelandHets, PTSLENHS1935-36:27-28, SuffolkHets, TSBE1:51-84, TSBE2:47-67
- as *Triphleps obscurus* D&S1865, EMM16:12-15
- Orius vicinus* (Ribaut) (Anthocoridae)
- as *Orius vicinus* BJENH18:208, BJENH25:205-215, CornwallHets, EG60:37-71, EG64:146-165, EMM120:253-258, EMM141:248, Ent104:258-259, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem2:22, Hem2:33, Hem2:5, Hem3:106, Hem3:58, Hem3:6, Hem3:60, Hem3:61, Hem3:77, Hem3:86, Hem3:96, Hem4:105, Hem4:135, Hem4:144, Hem4:30, Hem4:39, Hem4:42, Hem4:45, Hem4:6, Hem4:73, Hem5:106, Hem5:146, Hem5:156, Hem5:18, Hem5:195, Hem5:206, Hem5:6, Hem6:214, Hem6:216, Hem6:218, Hem6:90, HN17/18:26, HN17/18:7, HN6:8, HSGN1:12, HSGN13:11, HSGN3:10, HSGN4:A10, HSGN4:A7, LondonHets, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280
- Orius vicinus/laticollis* AMBIGUOUS (Anthocoridae)
- as *O. minutus* EMM81:253-273
- as *Or. minutus* EMM91:7-27
- as *Orius minutus* BJENH25:205-215, EG20:125-135, EG61:243-250, EMM109:132-139, EMM86:6-8, EMM91:283, EMM92:35, EMM92:54-64, EMM95:96, Ent104:258-259, Ent87:15-18, HSGN4:A5, HSGN4:A7, JSBE5:179-186, LondonHets, PRESL(A)35:39-46, PTBENHS16:50-52, PTBENHS17:37-39, PTSLENHS1949-50:36-38, PTSLENHS1961:62-73, PTSLENHS1962:123-183, S&L1959, TRESL112:173-220, TSBE11:245-280
- as *Orius vicinus* LondonHets
- as *Thriphleps minuta* Ent27:222
- as *Triphleps minuta* Butler1923, EMM17:234-235, EMM26:81-82, EMM62:21, EMM69:21, EMM69:234-245, EMM75:29-31, EMM75:79, Ent47:146-147, Ent59:84-85, HantsHets, IrelandHets, SuffolkHets, TSBE1:51-84, TSBE2:47-67, TSBE6:115-136
- as *Triphleps minutus* D&S1865, EMM16:12-15, Saunders1892, Synopsis1875
- Temnostethus gracilis* Horváth (Anthocoridae)
- as *Temn. gracilis* EMM91:7-27

as *Temnostethus gracilis* CornwallHets, EG28:283-284, EG60:37-71, EMM100:160, EMM107:170-171, EMM114:21-24, EMM125:206, EMM91:259-262, EMM92:54-64, EMM94:24, EMM95:279, EMM96:112, EMM96:152, EMM97:199-200, ERJV102:21-23, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:1, Hem2:16, Hem2:22, Hem2:33, Hem2:42, Hem2:44, Hem2:5, Hem3:26, Hem3:27, Hem3:43, Hem3:58, Hem3:6, Hem3:60, Hem3:77, Hem3:86, Hem3:96, Hem4:135, Hem4:148, Hem4:30, Hem4:42, Hem4:45, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:122, Hem5:136, Hem5:156, Hem5:162, Hem5:18, Hem5:189, Hem5:195, Hem5:206, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem5:72, Hem6:231, Hem6:263, Hem6:277, Hem6:90, HN11:14, HN17/18:26, HSGN1:14, HSGN10:11, HSGN10:9, HSGN11:6, HSGN12:11, HSGN12:12, LondonHets, PTSLENHS1962:123-183, PTSLENHS1965:59-60, S&L1959, TSBE11:245-280, TSBE15:117-134, TSBE18:91-167

*Temnostethus pusillus* (Herrich-Schaeffer) (Anthocoridae)

as *Temnostethus pusillus* BJENH14:168, BJENH17:180, CornwallHets, EG28:283-284, EMM100:160, EMM107:170-171, EMM125:206, EMM91:259-262, EMM92:54-64, EMM93:49-51, EMM95:270, EMM97:199-200, ERJV102:21-23, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:16, Hem2:22, Hem2:33, Hem2:44, Hem2:5, Hem3:26, Hem3:27, Hem3:43, Hem3:52, Hem3:58, Hem3:6, Hem3:60, Hem3:77, Hem3:86, Hem3:96, Hem4:105, Hem4:135, Hem4:30, Hem4:39, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:146, Hem5:156, Hem5:162, Hem5:195, Hem5:206, Hem5:212, Hem5:29, Hem5:43, Hem5:6, Hem6:260, Hem6:273, Hem6:91, HN17/18:26, HSGN1:14, HSGN12:13, PTSLENHS1962:123-183, PTSLENHS1965:59-60, S&L1959, TSBE18:91-167

*Temnostethus pusillus/gracilis* AMBIGUOUS (Anthocoridae)

as *T. pusillus* EMM81:253-273, EMM82:94-95

as *Temn. pusillus* EMM91:7-27

as *Temnostethus pusillus* APSLENHS1886:56, Butler1923, D&S1865, EMM133:17-26, EMM14:186-187, EMM39:17-18, EMM4:30-33, EMM53:112-113, EMM61:62-63, EMM63:12-13, EMM64:62-64, EMM65:40-42, EMM68:139-145, EMM69:21, EMM69:234-245, EMM70:162, EMM92:68-71, GloucsHets, HantsHets, IrelandHets, LondonHets, Saunders1892, SuffolkHets, Synopsis1875, TSBE1:51-84, TSBE11:245-280

*Temnostethus tibialis* Reuter (Anthocoridae)

as *Temnostethus tibialis* BJENH25:205-215, EMM107:170-171, EMM125:206, ERJV102:21-23, Hem1:48, Hem1:49, Hem1:7, Hem2:5, Hem3:26, Hem3:27, Hem3:43, Hem3:58, Hem3:6, Hem3:60, Hem3:65, Hem4:135, Hem4:6, Hem4:73, Hem5:106, Hem5:206, Hem5:6, Hem6:91, HSGN1:4, HSGN12:7, HSGN12:9, HSGN4:A5, HSGN8:9, HSGN9:2

*Tetraphleps bicuspis* (Herrich-Schaeffer) (Anthocoridae)

as *T. bicuspis* EMM81:253-273, EMM82:94-95

as *Tetr. bicuspis* EMM91:7-27

as *Tetraphleps bicuspis* BJENH18:233-252, BJENH30:191-192, BJENH30:224, EG20:125-135, EMM145:171, EMM64:62-64, EMM65:40-42, EMM92:47-48, EMM96:152, EMM97:32-33, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:22, Hem2:33, Hem3:26, Hem3:27, Hem3:43, Hem3:6, Hem3:77, Hem3:86, Hem4:135, Hem4:30, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:122, Hem5:162, Hem5:195, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem5:72, Hem5:95, Hem6:91, HN17/18:26, HN6:2, HSGN10:12, HSGN11:7, HSGN12:13, LondonHets, PTSLENHS1948-49:73-74, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280

as *Tetraphleps vittata* Butler1923, EMM17:234-235, EMM53:112-113, EMM72:96, HantsHets, IrelandHets, PTSLENHS1936-37:35-36, Saunders1892, SuffolkHets, Synopsis1875

as *Tetraphleps vittatus* D&S1865, EMM14:165-167, EMM14:186-187, EMM69:234-245

*Xylocoridea brevipennis* Reuter (Anthocoridae)

as *X. brevipennis* EMM81:253-273

- as *Xyl. brevipennis* EMM91:7-27  
 as *Xylocoridea* EMM85:152-156  
 as *Xylocoridea brevipennis* BJENH12:221-223, Butler1923, EMM34:251, EMM43:196-202, EMM66:259, EMM68:41-42, EMM95:89, Ent58:76, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:46, Hem3:6, Hem4:135, Hem4:6, Hem4:73, Hem5:106, Hem5:156, Hem5:29, Hem5:59, Hem5:6, Hem5:95, Hem6:92, HN9:6, HN9:7, HSGN1:4, HSGN8:9, JSBE5:179-186, LondonHets, PTSLENHS1962:123-183, S&L1959, SuffolkHets, TSBE11:245-280
- Xylocoris cursitans* (Fallén) (Anthocoridae)  
 as *Piezostethus cursitans* PTSLENHS1934-35:7  
 as *Piezostethus bicolor* EMM69:234-245  
 as *Piezostethus cursitans* Butler1923, EMM11:184-186, EMM21:24, EMM30:64-65, EMM43:14-15, EMM47:278, EMM69:234-245, EMM71:141-142, EMM72:258-259, EMM74:20-21, EMM77:97-101, EMM87:45-52, HantsHets, IrelandHets, PESL1884:xi, Saunders1892, SuffolkHets, Synopsis1875, TSBE1:51-84  
 as *Piezostethus rufipennis* D&S1865, EMM11:184-186, EMM4:30-33  
 as *X. cursitans* EMM81:253-273, EMM82:94-95  
 as *Xyl. cursitans* EMM91:7-27  
 as *Xylocoris* EMM85:152-156  
 as *Xylocoris cursitans* BJENH22:61-70, BJENH32:64-67, BJENH4:119-121, BJENH5:77, BJENH6:97-101, BJENH7:36, BJENH8:91-92, BJENH9:3-5, CornwallHets, EG20:125-135, EG60:37-71, EMM130:65-66, EMM137:76, EMM86:6-8, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:16, Hem2:33, Hem2:40, Hem2:44, Hem3:106, Hem3:26, Hem3:27, Hem3:43, Hem3:6, Hem3:77, Hem4:105, Hem4:135, Hem4:144, Hem4:148, Hem4:30, Hem4:39, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:122, Hem5:156, Hem5:162, Hem5:18, Hem5:195, Hem5:206, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem5:72, Hem5:95, Hem6:92, HN14:11, HN17/18:26, HSGN11:2, LondonHets, PTSLENHS1954-55:78-79, PTSLENHS1962:123-183, PTSLENHS1965:59-60, S&L1959, TRESL109:295-310, TSBE11:245-280, TSBE15:117-134  
 as *Xylocoris curtisians* ERJV109:98-100  
 as *Xylocorus cursitans* PTSLENHS1966:34
- Xylocoris flavipes* Reuter (Anthocoridae)  
 as *A. flavipes* EMM81:253-273  
 as *Arrostelus flavipes* EMM81:253-273, EMM85:152-156  
 as *Piezostethus flavipes* Butler1923, EMM43:14-15, EMM48:187-189  
 as *X. flavipes* Hem1:96  
 as *Xyl. flavipes* EMM91:7-27  
 as *Xylocoris flavipes* GloucsHets, HN16:3, HN9:7, HSGN4:6, LondonHets, S&L1959, TRESL109:295-310
- Xylocoris formicetorum* (Boheman) (Anthocoridae)  
 as *Piezostethus formicetorum* EMM11:173-174  
 as *Piezestethus formicetorum* ERJV19:229-230  
 as *Piezostethus formicetorum* AntGuests, Butler1923, EMM43:14-15, EMM87:45-52, Ent10:9-15, Ent40:258-259, ERJV14:37-40, ERJV19:254-256, ERJV19:268, ERJV22:15-17, ERJV24:34-40, ERJV34:1-5, ERJV35:103-104, ERJV43:125-126, HantsHets, Saunders1892, Synopsis1875  
 as *X. formicetorum* EMM81:253-273  
 as *Xyl. formicetorum* EMM91:7-27  
 as *Xylocoris formicetorum* EMM105:165-166, EMM85:152-156, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem3:43, Hem3:6, Hem4:135, Hem4:6, Hem4:73, Hem5:106, Hem5:162, Hem5:59, Hem5:6, Hem6:92, HN9:2, HN9:5, HN9:6, HSGN1:18, HSGN1:4, HSGN8:9, LondonHets, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280

*Xylocoris galactinus* (Fieber) (Anthocoridae)

as *Piezostethus galactinus* Butler1923, D&S1865, EMM69:234-245, EMM87:45-52, Ent27:222, HantsHets, IrelandHets, Saunders1892, SuffolkHets, Synopsis1875, TSBE1:51-84

as *X. galactinus* EMM81:253-273

as *Xyl. galactinus* EMM91:7-27

as *Xylocoris galactinus* BJENH13:106-107, BJENH16:186, BJENH27:11-12, CornwallHets, EMM115:139-144, EMM116:13-15, EMM81:183-185, EMM88:45, EMM93:121-126, Ent92:6-13, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:16, Hem2:33, Hem3:26, Hem3:27, Hem3:43, Hem3:6, Hem4:105, Hem4:135, Hem4:144, Hem4:30, Hem4:42, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:122, Hem5:139, Hem5:156, Hem5:162, Hem5:18, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem5:72, Hem5:95, Hem6:234, Hem6:93, HN17/18:26, HN6:2, HN9:7, HSGN13:11, HSGN4:6, LondonHets, PRESL(A)24:128-130, PTSLENHS1962:123-183, S&L1959, TRESL112:173-220, TSBE11:245-280

as *Xylocorus galactinus* PTSLENHS1966:34

**Tabulated summaries**

On the following pages are summaries of the results of this review for each of the species in scope. The common name is that used in the literature consulted; or has been created from aspects of the species natural history. The first report is the first mention of the species in the literature consulted, starting at D&S1865. The ambiguities, if they occur, refer to the ambiguous species names of Hem2:4-8, Hem3:15-17, Hem5:14-15 and Hem5:114-118. The geographical distribution is based upon records published elsewhere in this journal; and is shown as a map from the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The presence of a vice-county record is shown with a black fill, and the absence with a white fill. The seasonal distribution is based on the heximonth records listed above and is shown as a calendar. The presence of an adult record is shown with a black fill, and the absence with a white fill, with a figure representing the number of distinct records in the above list. The existence of nymph and egg records is shown by the letters 'N' and 'E', respectively, without a figure. Heximonth records are assumed to be adult unless explicitly stated otherwise. The other details is a narrative constructed from the detailed records listed above. Aspects of the narrative which include records for nymphs or eggs are marked '(n)' or '(e)', respectively. Those that include winter records (which I define as 1st January to 31st March) are marked '(w)'. Habitus photographs of the species are included, where available.

*Acompocoris alpinus* Reuter (Anthocoridae)

*Common name.* The Confused Pine Flowerbug.

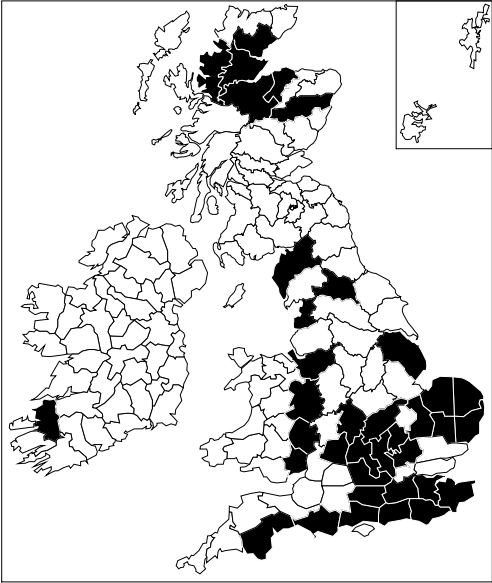
*First report.* EMM12:249-250 as *Acompocoris alpinus*.

*Ambiguities.* None reported.

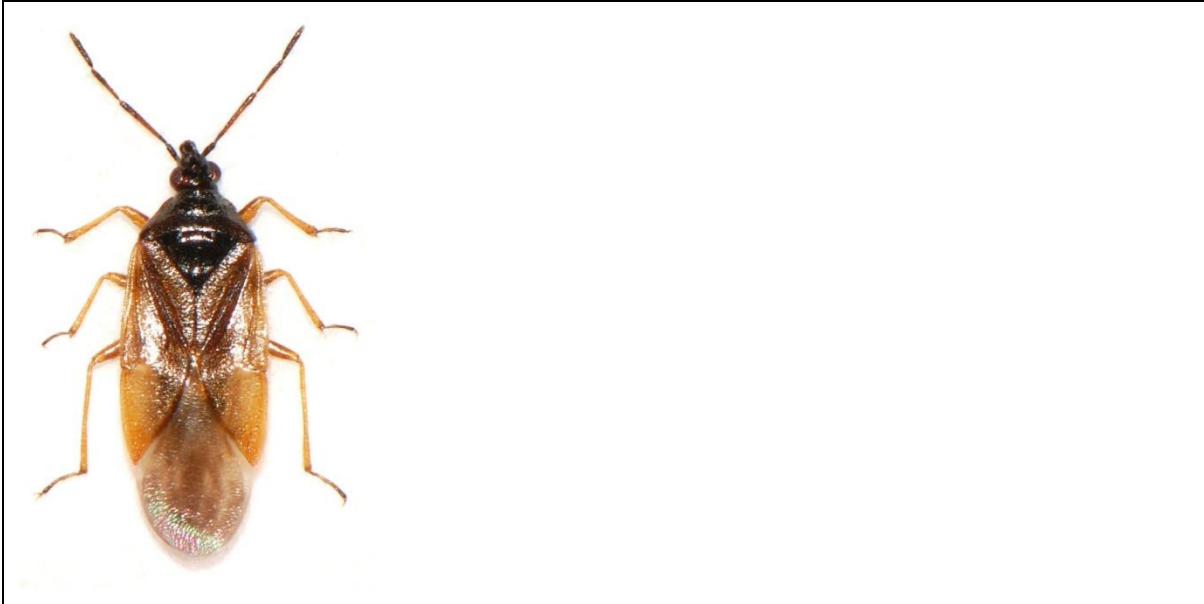
*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from garden, and spruce plantation; specifically from pine, spruce, and Douglas Fir. It has been taken beating, and sweeping.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						1
June					1	1
July		2	1		3	
August	1	2	1			1
September					1	
October						
November						
December						



*Acompocoris pygmaeus* (Fallén) (Anthocoridae)

*Common name.* The Common Pine Flowerbug.

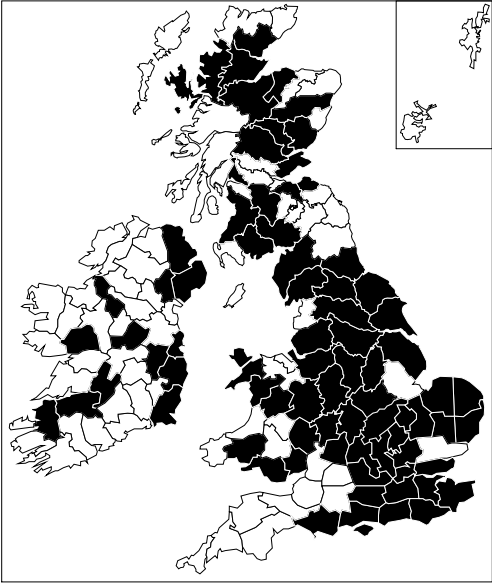
*First report.* D&S1865 as *Temnostethus lucorum*.

*Ambiguities.* Prior to EMM12:249-250 records may refer to *Anthocoris alpinus* (Hem5:114-118).

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from woods, and hedge; specifically from pine (n), spruce, birch and oak. It has been taken beating, sweeping, in a suction trap, and aerial netting at 250 ft over a grassy sports field.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May		1				
June		1				1
July	6	3	1	3	1	1
August	4	3	4 N	1	1	5
September	4	1	4	3		1
October	2	1			1	
November						
December						



***Amphiareus constrictus* (Stål) (Anthocoridae)**

*Common name.* The Blackheath Refusebug.

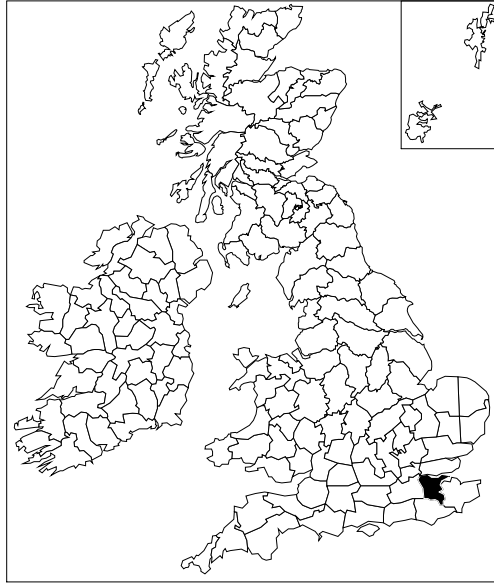
*First report.* EMM92:229-230 as *Lasiochilus sladeni*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from piles of dead grass and vegetable debris in a garden (n).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						
August						
September						1
October						
November						
December						

No habitus images are available.

***Anthocoris amplipennis* Horváth (Anthocoridae)**

*Common name.* The Helmsley Flowerbug.

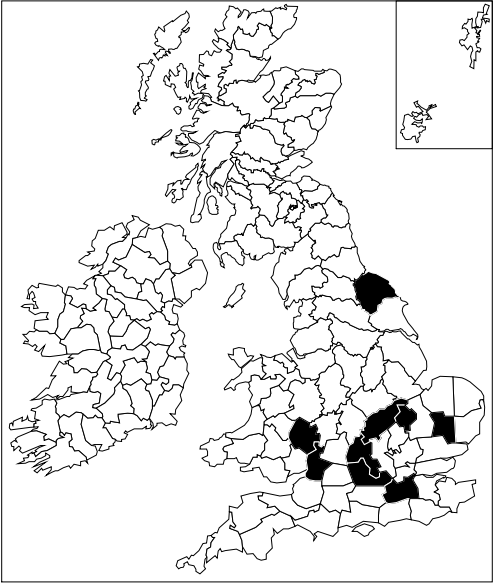
*First report.* EMM118:111-112 as *Anthocoris amplipennis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from woodland edge; specifically from ash, larch, and oak. It has been taken beating.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June			1			
July		1			1	
August		1		1	2	
September		1			1	
October						
November						
December						

No habitus images are available.

***Anthocoris butleri* Le Quesne (Anthocoridae)**

*Common name.* The Box Flowerbug.

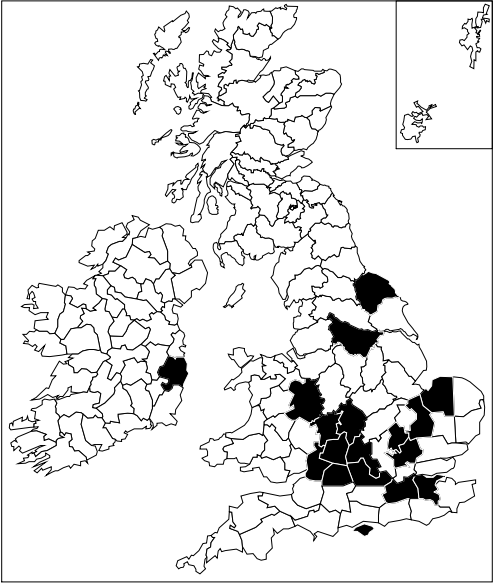
*First report.* EMM90:36-40 as *Anthocoris nemoralis butleri*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from garden, and hedge; specifically from box (*Buxus*), and fruit trees. It has been taken beating, sweeping, and in flight.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April	1	1				
May						1
June		1		1		
July				1		1
August					1	1
September			2	2		1
October	1					
November				1		
December						

No habitus images are available.

***Anthocoris confusus* Reuter (Anthocoridae)**

*Common name.* The Oak Flowerbug.

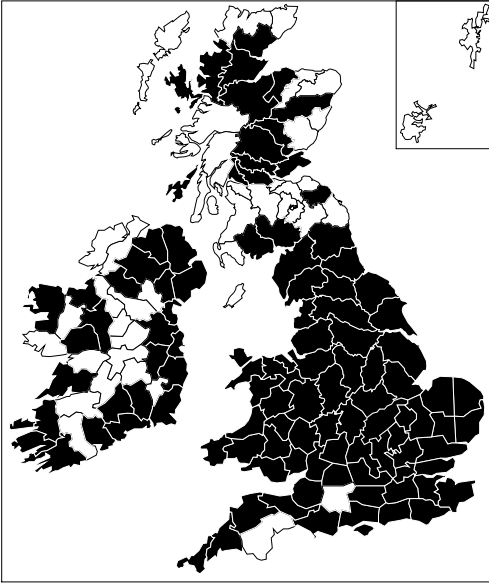
*First report.* EMM26:236 as *Anthocoris confusus*.

*Ambiguities.* None reported.

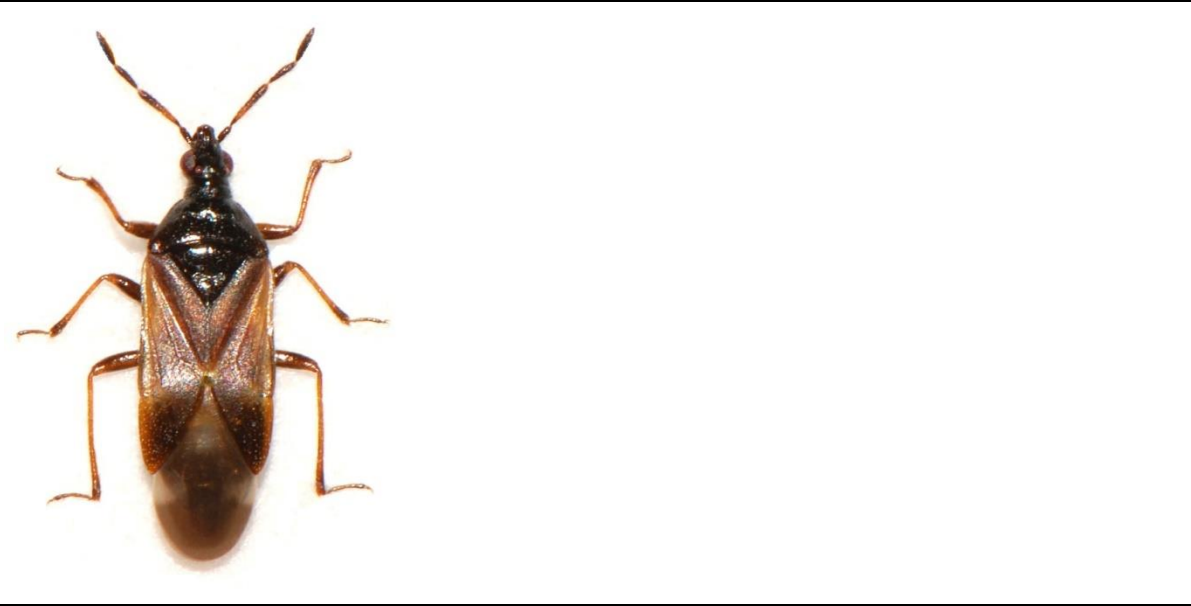
*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sandhills, garden, woodland, riverside, clearing on sandy heath, haymeadow, and naturally-vegetated derelict sites; specifically from oak (n), beech, birch, hazel, lime, rowan, alder, hawthorn, elm, *Salix*, sycamore, maple, ash, pine, spruce, gorse, broom, *Myrica gale*, *Malus sylvestris*, apple trees, bilberry under oak, herbaceous plants of hedgerows such as nettles, ground cover of woods, and cultivated plants such as wheat, oats, hop, potatoes and raspberries. It has been taken sweeping, beating, in a light trap, in a suction trap, in a Malaise trap, in old bird's nest (w), beneath bark of pine and sycamore (w), inside a leaf gall on Red Valerian (*Centranthus ruber*), in spathe of *Arum maculatum*, and in the gizzard of Coal Tit. Seen in the field consuming Psocoptera; attacking hop leaves, doing much harm, occasionally feeding upon 'hop lice'; destroying eggs of the sawfly *Nematus piliserra*. A study concluded it is semi-restricted in its breeding sites, with over 90% of larvae collected from the aphid-infested trees, beech, oak, lime and sycamore. It emerges from overwintering in mid to late March and starts to oviposit in early May. Larvae are present from the end of May until mid-August; these are predominantly all of one generation but a few of the earliest adults that mature in June oviposit, so there is a small second generation. Most adults enter hibernation in late August or September, but some are active until October. A favoured hibernation site is under bark scales of sycamore. Another study stated that adults overwintered in ground litter and under the bark of *Acer pseudoplatanus*, *Pinus sylvestris* and *Ulex europaeus*. Ova are inserted in petioles and stems of the current year's growth, the long axis of the egg parallel to the petiole or stem.



	1-5	6-10	11-15	16-20	21-25	26-
January		1				
February			2			1
March	1	1	1	2	1	
April	1	2	2	2	2	3
May	2	4	5 N	3	5	8
June	3	6	1	2	4	1
July	4 N	4	2	9	5	5
August	4	8 N	3 N	7	4	2
September	3	1	1	2	2	
October	4	3 N		1	1	1
November	1	1	1			
December	1					



***Anthocoris gallarumulmi* (De Geer) (Anthocoridae)**

*Common name.* The Elm-gall Flowerbug.

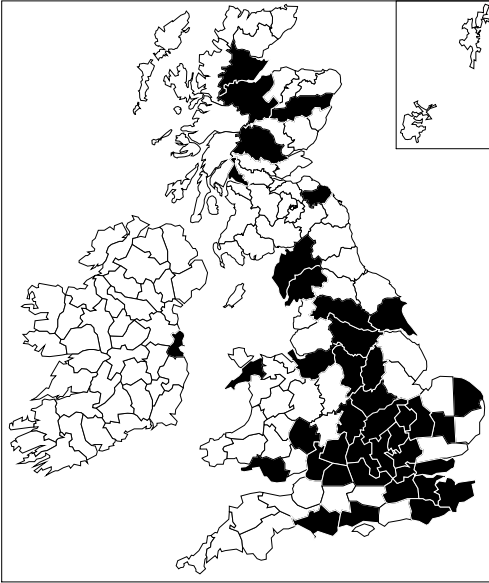
*First report.* Saunders 1892 as *Anthocoris gallarum ulmi*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from hedgerows, old garden shed, and woodland; specifically from elm, sloe, box, ash trunk, apple, cultivated raspberries, broom, *Salix*, sycamore, oak, beech and nettle. It has been taken beating, in a suction trap, under dead bird on path, in dead ivy stem, in elm leaf galls (n), in the rolled leaf galls of the psyllid *Psyllopsis fraxini* from an ash hedge in a garden, and on Wych elm (*Ulmus montana*) around cracks in bark leading to holes of the bark beetle *Scolytus scolytus*. One study stated it was found in the curled leaf-galls of the Common Elm (*Ulmus procera*). Eggs found in June, laid in the main rib of large leaves, i.e. those fully grown at the time of oviposition, nearly at right angles to the surface. Another study stated it breeds in the curled leaf-galls formed by *Eriosoma ulmi* on elm. It emerges from hibernation in mid-April and oviposits during May, when the aphid galls are forming. Larvae were present only from late May until early July in 1960. There is a single generation per year. The adults disperse from elm during June and July and can be collected sporadically from other trees until August. Another study stated that overwintered adults emerge in late April/May and can be found on a number of early flowering tree species, before congregating on elm (*Ulmus*) in late May/June. Overwintered females emerge already mated. Ova are deposited only in close association with leaf roll-galls of the aphids *S. ulmi* and *S. patchae*. The emerged nymphs' diet was almost exclusively these aphids. Intergall migration was characteristic of post second instar larvae, which resulted in the concentration of fifth instar larvae and adults in a limited number of galls. It was during this period of local high population density that mating occurred. Adults left elm within 14 days of imaginal ecdysis and thereafter, until overwintering, were recorded in only very low numbers from a range of tree, shrub and herb species. Overwintering adults selected as hibernacula the bark of four tree species but principally *Acer pseudoplatanus* and *Quercus robur*. Mortality among males surviving to spring emergence was 67%.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April	1			1		2
May		1	1		1	2
June	2	N				2
July	1	1	1	2	2	4
August			4	2	1	1
September	2	1	1		2	
October		1			1	
November						
December						1



***Anthocoris limbatus* Fieber (Anthocoridae)**

*Common name.* The Fen Flowerbug.

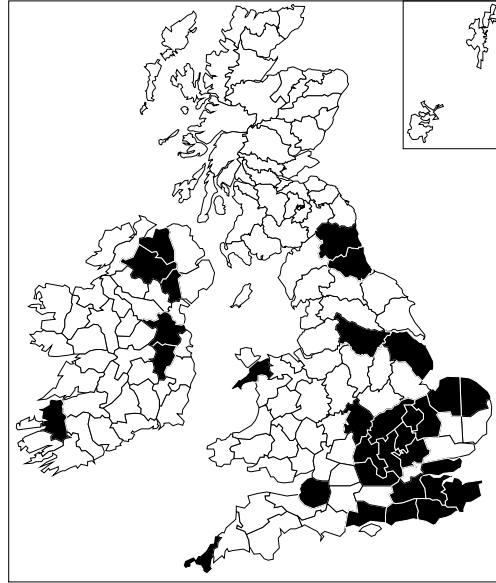
*First report.* EMM43:233 as *Anthocoris limbatus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from beside a canal, shore of a lough, and in a marsh; specifically from *Salix*, and moss on tree trunks (w). It has been taken sweeping and beating. In culture fed on green fly.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						1
May						
June						
July				2		
August			1	1		3
September	2	1		2	2	1
October		1				
November						
December						



***Anthocoris minki* Dohrn (Anthocoridae)**

*Common name.* The Poplar-gall Flowerbug.

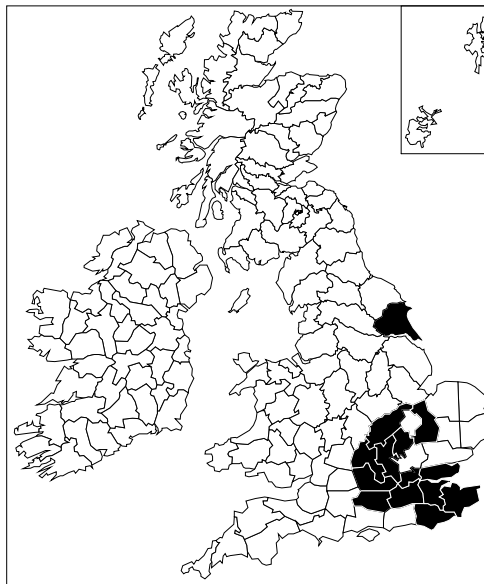
*First report.* EMM119:221-223 as *Anthocoris minki*.

*Ambiguities.* Prior to EMM119:221-223 records refer to *Anthocoris simulans* (Hem2:4-8).

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from roadside (n), path, track, cemetery, towpath, parkland (n), and field margin; specifically from petiole galls of *Pemphigus spirothecae* and *Pemphigus bursaria* on Lombardy poplar (*Populus nigra* var *italica*) (n). It has been taken sweeping, and on the arm of a recorder's jacket whilst collecting galls of Lombardy Poplar.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June	1					
July	2	1				
August	1					
September			1	1 N	N	6 N
October						
November						
December						



***Anthocoris nemoralis* (Fabricius) (Anthocoridae)**

*Common name.* The Varnished Flowerbug.

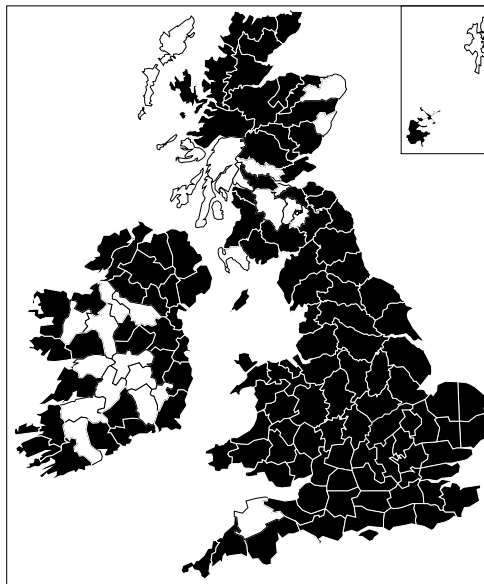
*First report.* D&S1865 as *Anthocoris nemoralis*.

*Ambiguities.* Prior to EMM26:236 records may refer to *Anthocoris confusus* (Hem5:114-118).

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from chalk-pit, around a pond, wet valley bottom, woodland (n), edge of a wood, hedge bank, sandy places, saltmarsh, cemetery, naturally-vegetated derelict sites, and old blackcurrent plantation; specifically from *Salix* (n), oak, ash, mistletoe, hawthorn, hazel, lime, sycamore, beech, rowan, pine, elm, broom, birch, juniper, *Prunus spinosa*, willow trunk, apple trees, Ranunculaceae, sea buckthorn, nettles, raspberries (n), *Buxus sempervirens*, and grass tuft (w). It has been taken sweeping, beating, suction sampling, in a suction trap, in a light trap, in a Malaise trap, in the gizzard of Blue Tit, in spruce cones, beneath tree bark, and flying and settling on people. In culture fed on aphids and larvae of *Pieris rapae*. On broom fed selectively on psyllids rather than aphids. A study stated that it breeds primarily on Psyllid-infested trees, though the adults occur on a range of plants. It emerges from hibernation in mid to late March and aggregates especially on *Salix*, before dispersing to other trees. Spring-generation adults occur at the end of May or early June and most larvae have matured by the third week of June. The adults disperse to aphid-infested trees during post-teneral flights in June. A small second generation is produced, especially on lime. Most adults apparently enter hibernation in July and August, but a few are still present on trees in October.



	1-5	6-10	11-15	16-20	21-25	26-
January	1					
February						1
March		1	1	1	1	
April	1	1	2	4	1	2
May	1	5	4	1	2	5
June	1	1	3	6	4	2
July	8	8	5	5	3	5
August	3	5	2	3	6	3
September	3		1	8	3	
October	1	2	1			1
November		1		1		
December						



***Anthocoris nemorum* (Linnaeus) (Anthocoridae)**

*Common name.* The Common Flowerbug.

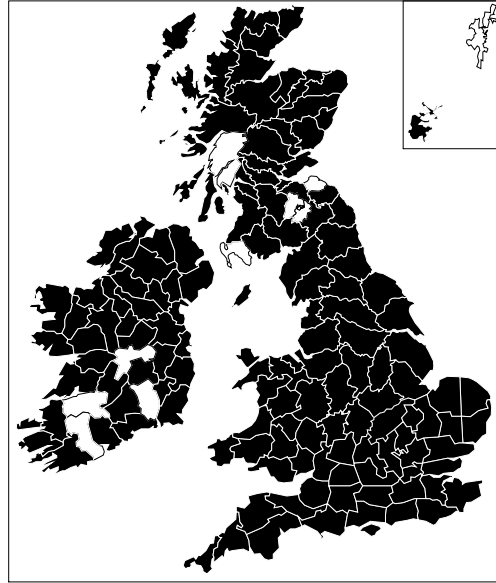
*First report.* D&S1865 as *Anthocoris nemorum*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* See Appendix.



	1-5	6-10	11-15	16-20	21-25	26-
January					1	
February	2					4
March				2	3	4
April	2	3	3	4	3	6
May	2	10	9	7	9	13
June	4	2	4	4 N	10 N	5
July	12	9 N	6	18 N	15 N	6
August	10	10 N	7 N	6	5	11
September	5	13 N	6	12	6	7
October	4	4	1	2	1	
November	3	1	1 N		2	
December			3		1	



***Anthocoris pilosus* (Jakovlev) (Anthocoridae)**

*Common name.* The Hairy Flowerbug.

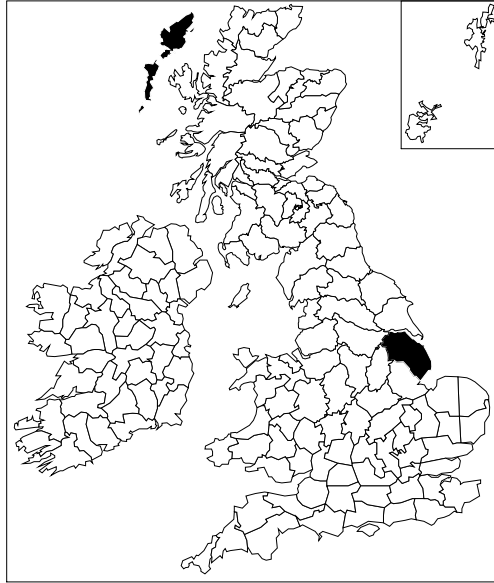
*First report.* EMM94:125-127 as *Anthocoris pilosus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from beating trees.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May			1			
June						
July						
August						
September						
October						
November						
December						

No habitus images are available.

***Anthocoris sarothamni* Douglas & Scott (Anthocoridae)**

*Common name.* The Broom Flowerbug.

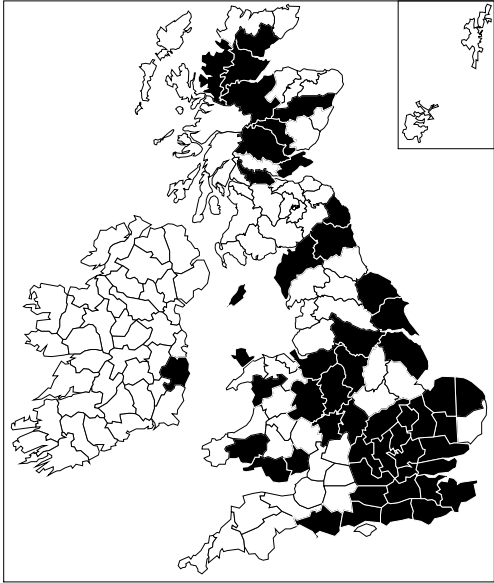
*First report.* D&S1865 as *Anthocoris Sarothamni*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from broom (n), *Salix*, lime, sycamore, elm, oak, ash, nettle, dead fir hedge, and marsh herbage by a canal. It has been taken beating. In culture fed on aphids and larvae of *Cheimatobia brumata*. Feeds in field/laboratory on *Arytaina genistae*, *Trioza urticae* and *Acyrtosiphon pisum*. One study states that hibernation takes place in the dehisced pods that remain on the host plant (broom), and also under bark on other trees. The adults are active and feed during warm days in the winter. Ovarial development is well advanced at the time of spring emergence. Oviposition commences in late March and larvae first occur four or five weeks later. A second generation of larvae occurs during July and August. The size of this generation is apparently determined by the proportion of first-generation females that reproduce instead of entering reproductive diapause. Psyllids on broom comprise the chief prey, feeding selectively on these rather than aphids; if the numbers of prey are small when the first-generation adults mature, the size of the second generation is correspondingly reduced.



	1-5	6-10	11-15	16-20	21-25	26-
January			1			
February						1
March						
April		1		1 E	1	
May		1	1 N		2	
June	1	1	1			3
July	2	1	1	1	2	1
August	1	N			1	
September			1	1		
October						
November	1					
December						



***Anthocoris simulans* Reuter (Anthocoridae)**

*Common name.* The Ash Flowerbug.

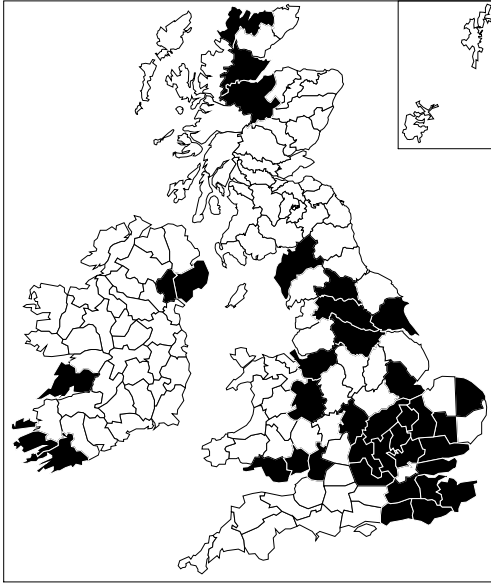
*First report.* EMM90:36-40 as *Anthocoris confusus chinai*.

*Ambiguities.* None reported.

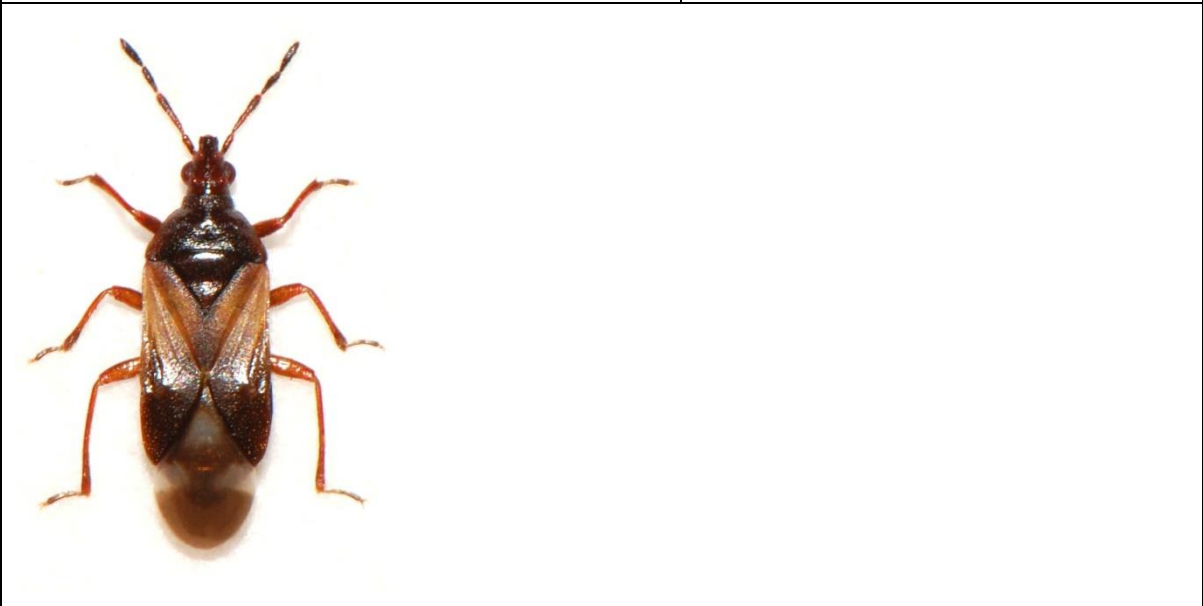
*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from roadside, woodland, and garden; specifically from ash (sapling, old tree, and bunches of keys), and hazel. One study states that it leaves hibernation and returns to ash in early April. The primary prey, *Psyllopsis fraxinicola*, emerge in late April and *A. simulans* starts to oviposit shortly thereafter. Larvae of the first generation are present from mid-May until mid-July. There may be a small second generation from July to September, but this is improbable, because the only prey available would be adult Psyllids. *A. simulans* adults are present on ash throughout the autumn but the numbers gradually decrease during September and October.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May			1			1
June				1		
July			2			
August	1	2		1	1	
September	1	1	1	1		
October						
November						
December						



***Anthocoris visci* Douglas (Anthocoridae)**

*Common name.* The Mistletoe Flowerbug.

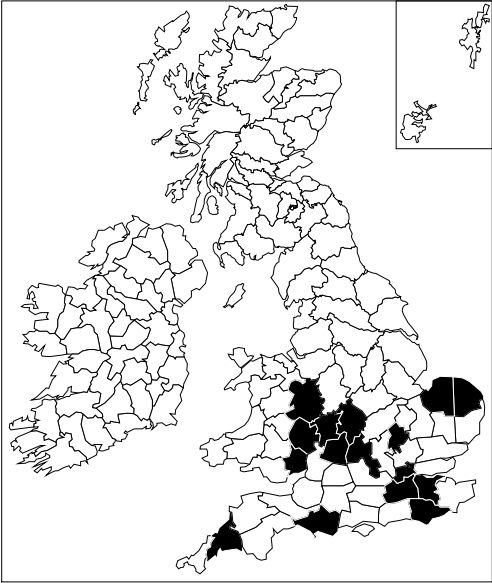
*First report.* EMM25:427-428 as *Anthocoris visci*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from orchard, and woodland; specifically from mistletoe (n) (on apple, rowan, and poplar). It has been taken beating.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July		1	1			1
August						
September				1		
October	1 N					
November						
December						



***Brachysteles parvicornis* (A. Costa) (Anthocoridae)**

*Common name.* The Obscure Flowerbug.

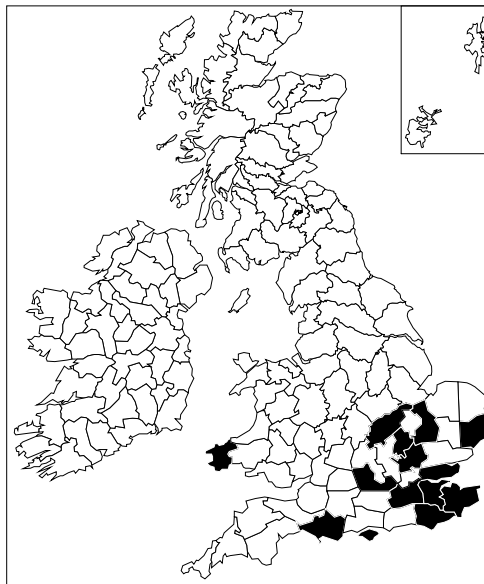
*First report.* D&S1865 as *Brachysteles pilicornis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from woodland, old clay pit, and shingle; specifically from dwarf plants of clover (*Trifolium repens*), roots of grass, stack of rotting reeds, leaf litter, under an elm hedge (n), and under patches of low plants. It has been taken sweeping (n), shaking a dead branch of a hawthorn bush encrusted with grey lichen, and running on damp ground amongst scantily growing rushes.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May			1			
June	1					1
July						1
August						
September		1				
October						
November						
December						

No habitus images are available.

***Buchananiella continua* (F.B. White) (Anthocoridae)**

*Common name.* The Royal Refuse FlowerBug.

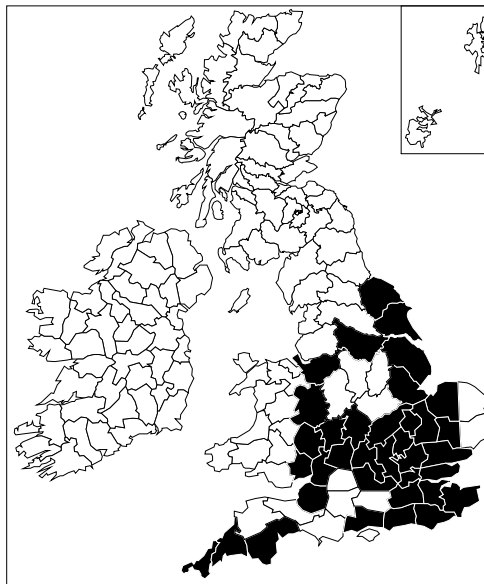
*First report.* BJENH12:221-223 as *Buchananiella continua*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from garden (n), overgrown cemetery, urban residential area, graveyard (w), wet fen (n), promenade sea wall, roadside hedge, and shoreline; specifically from Leyland cypress (n), Lawson cypress, dead branches of pine, ivy (w), jasmine, larch, *Crataegus*, *Clematis vitalba*, coarse waste in plastic sacks, dead leaves on a fallen bough, stacked dry branches, withered foliage of dead branches of *Acer pseudoplatanus* (n), compost heap, bird feeder containing rotting peanuts, wheelbarrow containing decaying apples, leaf litter (w), sedge stacks (n), twiggy refuse under trees (n), abandoned wasp nest, and fallen mistletoe in an avenue of lime trees. It has been taken beating, sweeping, in a light trap, and in a Malaise-trap.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March	2		1	1		
April		1	1			
May			1	1	1	
June			2			
July		1		1		
August	1 N	2	2	1	1	1
September	2	1		1	1 N	1
October		4 N	2 N	2		3 N
November						1
December						



*Cardiastethus fasciiventris* (Garbiglietti) (Anthocoridae)

*Common name.* The Conifer Flowerbug.

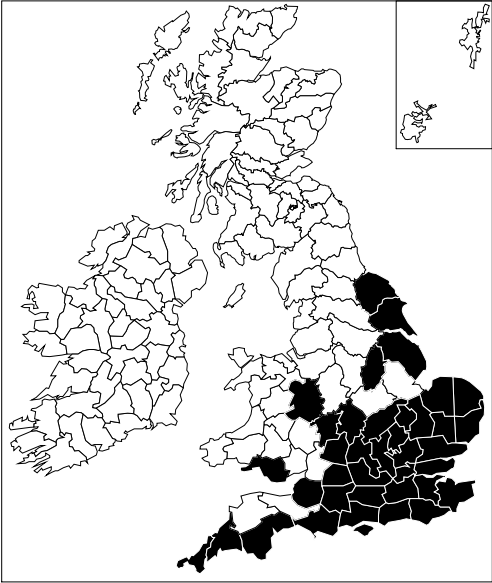
*First report.* D&S1865 as *Cardiastethus testaceus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from hedge, woodland, cemetery, side of a hill, hedge bank, windswept thicket (n), below a seawall, streamside, edge of cliffs, along river flats, and orchard; specifically from gorse, Lawson cypress (n), spruce (w), pine (n), hawthorn, lichen-encrusted blackthorn, turkey oak, box (n), lichen-covered larch (n), mistletoe, Douglas Fir (w), lichen-covered sloe (n), sallows, long grass, and ground flora. It has been taken beating (w), sweeping, under the bark of an old apple tree, and under the bark of a sycamore killed by sooty bark disease (n).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February				1		
March		1			1	
April	1			1		
May	1	1	1	1		1
June	1		2		1	1
July		3	2 N	3 N		1
August	1	1 N	1			4
September	4		1 N			
October	1					
November		1 N				
December						



***Dufouriellus ater* (Dufour) (Anthocoridae)**

*Common name.* The Conifer Cortical Flowerbug.

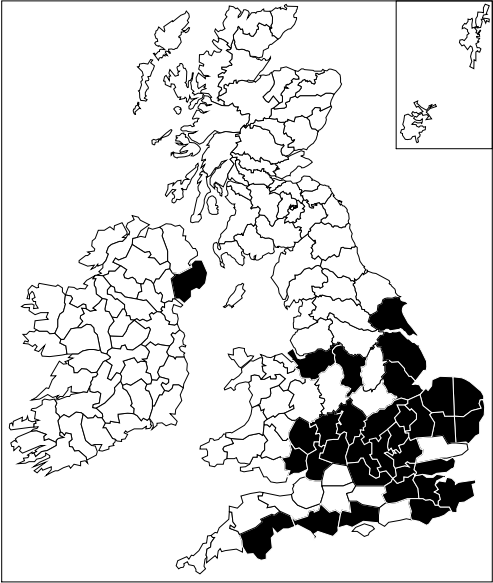
*First report.* D&S1865 as *Xylocoris ater*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from garden, building, near the sea and chicken-coop; specifically from under bark (of a post, pine (n), oak, recently fallen oak trunk (n), London Plane, larch fencing, dead larch branches, fallen beech, and sycamore killed by sooty bark disease (n)), under chips of bark on the trunk of a dead William pear tree infested with the bracket fungus *Polystictus versicolor*, beehive under bark (w), and cabbage.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March		1				
April	1		1			
May	2	1			1	
June	1				1	
July						
August			1		1 N	1
September	1	1	1	2		
October	1		1			
November	1	1 N				
December						

No habitus images are available.

*Elatophilus nigricornis* (Zetterstedt) (Anthocoridae)

*Common name.* The Scarce Pine Flowerbug.

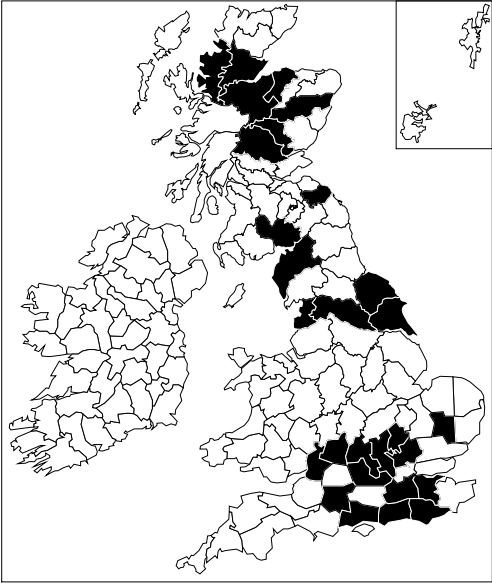
*First report.* EMM13:85-86 as *Temnostethus nigricornis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from forest, and grounds of a hotel; specifically from pine. It has been taken beating, and in a light trap.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June					1	3
July	2	1				
August			1		2	1
September	1					
October	1					
November						
December						

No habitus images are available.

***Lyctocoris campestris* (Fabricius) (Anthocoridae)**

*Common name.* The Common Refuse Flowerbug.

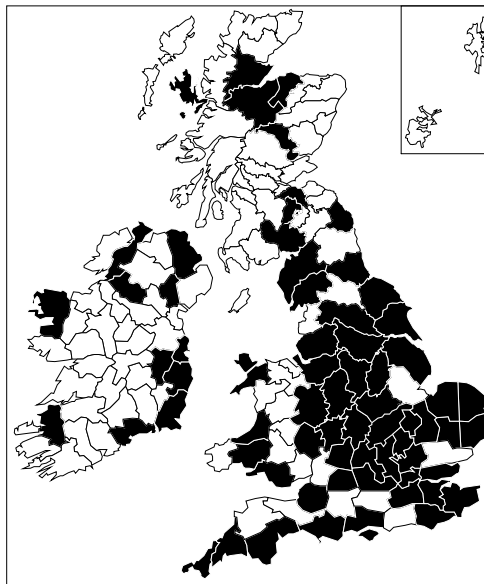
*First report.* D&S1865 as *Lyctocoris domesticus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from ditch, granary (w), hay-manure heap, orchard, bottom of haystacks (n), dairy (n), chicken-coop, house (w), alluvial grassland, *Calluna* moor, deep-pit poultry house, farmyard, deer pens, river wall, tip, and meadows; specifically from dead leaves, gorse bushes, pine, *Aquilegia*, bird's nest (w, n), Boleti with larvae of *Orchesia micans*, decaying fungus on elm, fresh-cut and stored hay, refuse in buildings, sedge stacks (n), fences, and poplar. It has been taken beating, in a light trap, in a suction trap, in the nest of the bee *Bombus agrorum*, and under bark of cut pine logs. Seen flying into a warehouse.



	1-5	6-10	11-15	16-20	21-25	26-
January			1			N
February			1			1
March	1				1	
April		N	1			
May	1	2	3	1 N	1	2
June		1	3			1
July	1	2	1	1	2	
August		3		1	1	1
September	1	3	3	2	1	
October	2		2			
November				1	1	
December	1	1	1			1

No habitus images are available.

***Orius horvathi* (Reuter) (Anthocoridae)**

*Common name.* The Peterborough Tiny Flowerbug.

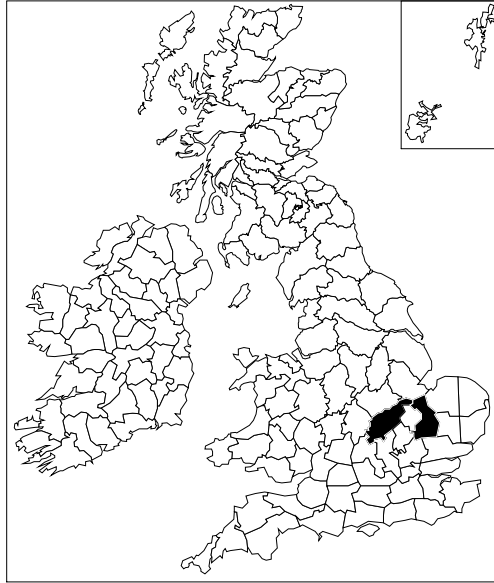
*First report.* HN22:2 as *Orius horvathi*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from beating Austrian Pine (*Pinus nigra*).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July		1			1	
August						
September						
October						
November						
December						

No habitus images are available.

***Orius laevigatus* (Fieber) (Anthocoridae)**

*Common name.* The Pale Tiny Flowerbug.

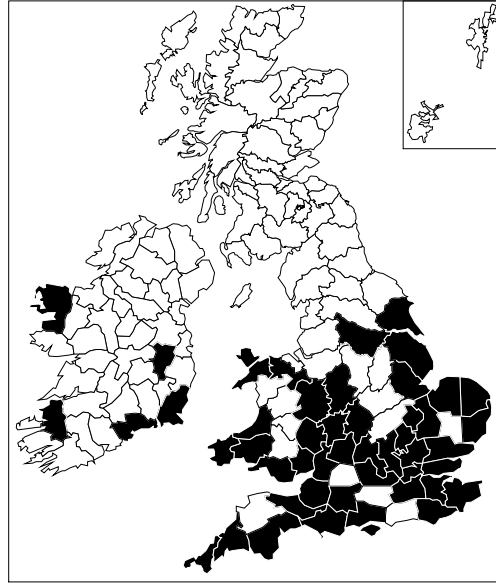
*First report.* EMM75:29-31 as *Triphleps laevigata*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from cemetery, garden, hedgerow near the sea, chalk-pit, chalk lane, and along a ride; specifically from mullein, mixed bed of half-hardy annuals, Michaelmas Daisies, dead foxglove stems, *Rubus*, *Mentha*, and *Pulicaria*. It has been taken sweeping.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March					1	
April						
May	2					1
June			1			1
July	2		2	1	3	3
August	1	3	1	2	2	5
September	3	3	4	1	1	1
October	2				1	
November						
December						



***Orius laticollis* (Reuter) (Anthocoridae)**

*Common name.* The Willow Tiny Flowerbug.

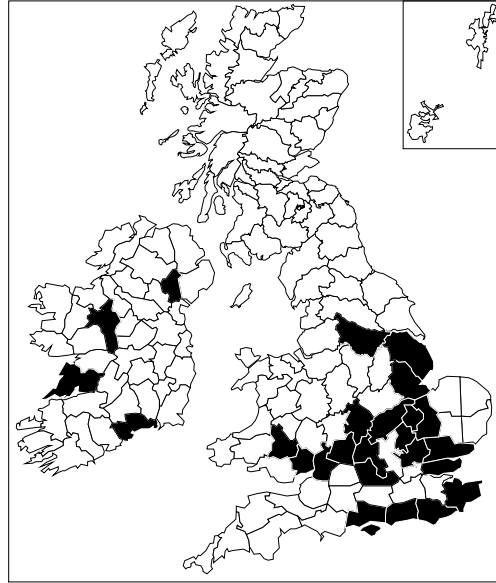
*First report.* Ent104:258-259 as *Orius laticollis* (Hem2:4-8).

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from riverside willows, White Willow/Osier beside a reservoir, and rowan.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May		1				
June				1		
July						1
August	1	1		1		
September			1			1
October					1	
November						
December						



***Orius majusculus* (Reuter) (Anthracoridae)**

*Common name.* The Not-so-tiny Flowerbug.

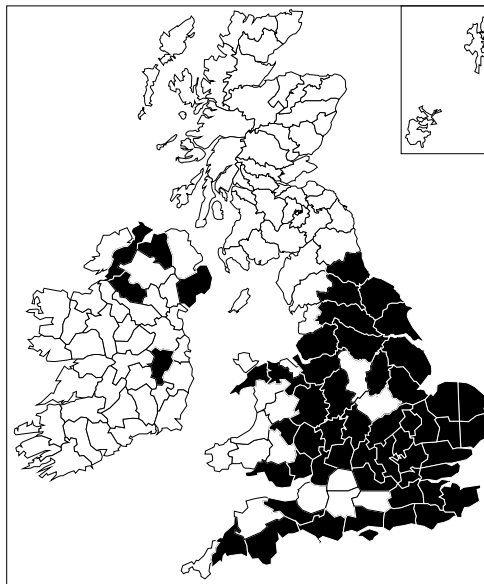
*First report.* EMM16:12-15 as *Triphleps majusculus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from garden, tip, and set-aside fields beside an airport; specifically from apple (w), *Salix*, nettles, aquatic plants, under *Polygonum aviculare*, *Angelica sylvestris* flowers, and under oak bark. It has been taken sweeping, beating, in a light trap, in a suction trap, in the nests of the bee *Bombus agrorum* and the wasp *Vespa vulgaris*, aerial netting at 50ft and 2000 ft over a grassy sports field, and inside the galls of *Pemphigus spyrothecae* on the leaf petioles of Lombardy poplars. Seen feeding on the flies *Sciara thomae* on pea plants in a garden. Found in the nest lining of a Swallow; in culture seen on several occasions to attack fowl mites (*Dermanyssus gallinae*), also from the linings, piercing the dorsum of the abdomen, withdrawing the rostrum after a short time to leave an empty exoskeleton.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April				1	1	1
May	2	1	2			
June	1	1	2		1	
July	1	2	2	4		5
August	5	4	7	3	2	5
September	5	3	1	4	1	
October	2					
November						
December						



***Orius niger* (Wolff) (Anthocoridae)**

*Common name.* The Dark Tiny Flowerbug.

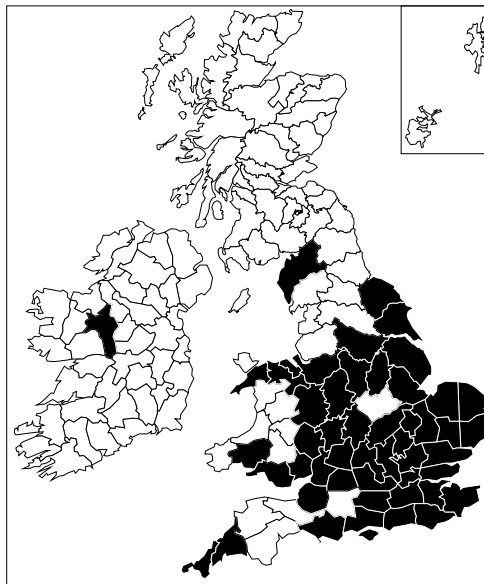
*First report.* D&S1865 as *Triphleps niger*.

*Ambiguities.* Prior to EMM75:29-31 records may refer to *Orius laevigatus* (Hem3:15-17).

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from edge of a saltmarsh, brownfield land, demolition sites, behind sandhills, garden, grass heath, birch woodland, sandy cultivated ground, upper shore, below a seawall, chalk-pit, hedge, margin of a pond, derelict grassy area, derelict bombed site, and a tip; specifically from heather, potato haulms, trees, flowers of cross-leaved heath, nettles, *Anthemis* flowers, flower-head of *Matricaria*, sea mayweed, Tamarisk flowers, *Artemisia vulgaris*, under *Polygonum aviculare*, and under tidal debris and low-growing plants. It has been taken sweeping, beating, suction sampling, in a suction trap, in a Malaise trap, and in a pitfall trap. Seen eating nymphs of the psyllid *Craspedolepta malachita* on Wormwood (*Artemisia absinthium*).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						1
June			1	3	1	
July	4	1	2	1	2	4
August	2	2	1	3	1 N	3
September		4	3			2
October	2	1	1	1		
November	1					
December						



***Orius vicinus* (Ribaut) (Anthocoridae)**

*Common name.* The Raspberry Tiny Flowerbug.

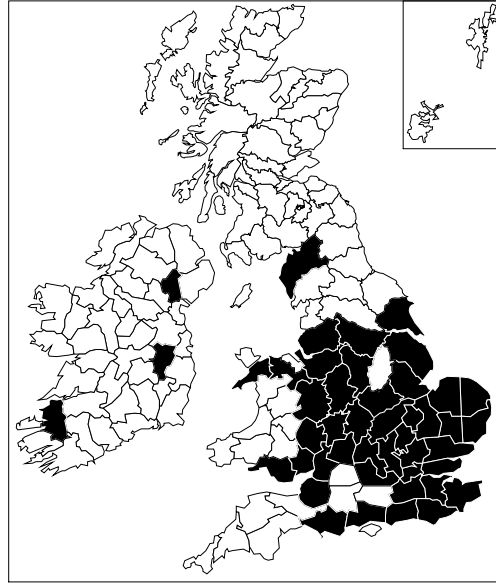
*First report.* Ent104:258-259 as *Orius vicinus* (Hem2:4-8).

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from garden, demolition sites, and edge of an urban car park; specifically from *Acer pseudoplatanus*, *Cupressus macrocarpa* 'Goldcrest', ash, cultivated raspberries, flowerheads of ornamental daisies, long grass, and tall vegetation. It has been taken sweeping, and beating.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May			1			1
June						
July		1	1		2	
August	2		2			1
September	1		3			
October						
November						
December						



***Temnostethus gracilis* Horváth (Anthocoridae)**

*Common name.* The Short-winged Lichen Flowerbug.

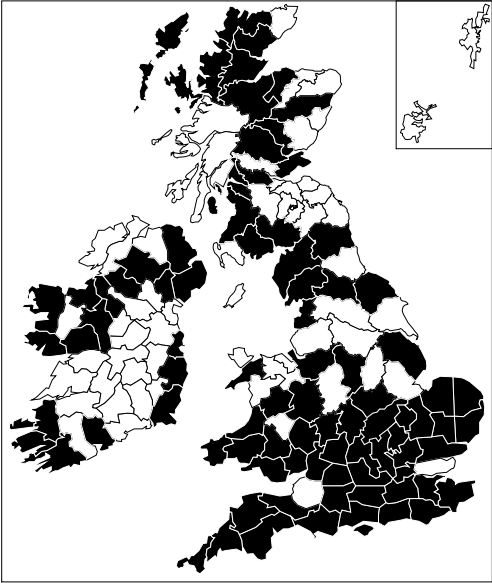
*First report.* EMM91:259-262 as *Temnostethus gracilis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from woods, hedge banks, haymeadow, along the coast, and streamside; specifically from lichens on *Malus sylvestris* and oak trunks, lichen-covered trees (alder, ash, hawthorn/whitethorn, oak twigs, larch, and sloe/blackthorn) and rocks, oak branches, sweet chestnut flattened by the 1987 hurricane, sallow branch, trunks of birch trees, grasses, hazel, sycamore, and pine. It has been taken beating, and sweeping. In culture fed on Psocidae.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June	1	1		1	1	
July	3	2	2	4	8	1
August	1	4	2	5	3	7
September		2		1		
October	1					
November						
December						



***Temnostethus pusillus* (Herrich-Schaeffer) (Anthocoridae)**

*Common name.* The Long-winged Lichen Flowerbug.

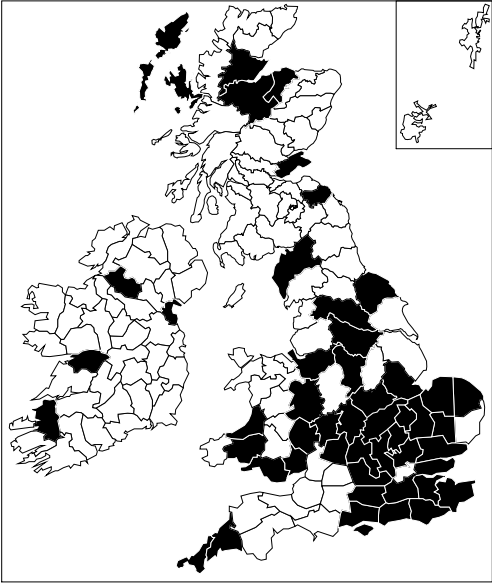
*First report.* D&S1865 as *Temnostethus pusillus*.

*Ambiguities.* Prior to EMM91:259-262 records may refer to *Temnostethus gracilis* (Hem2:4-8).

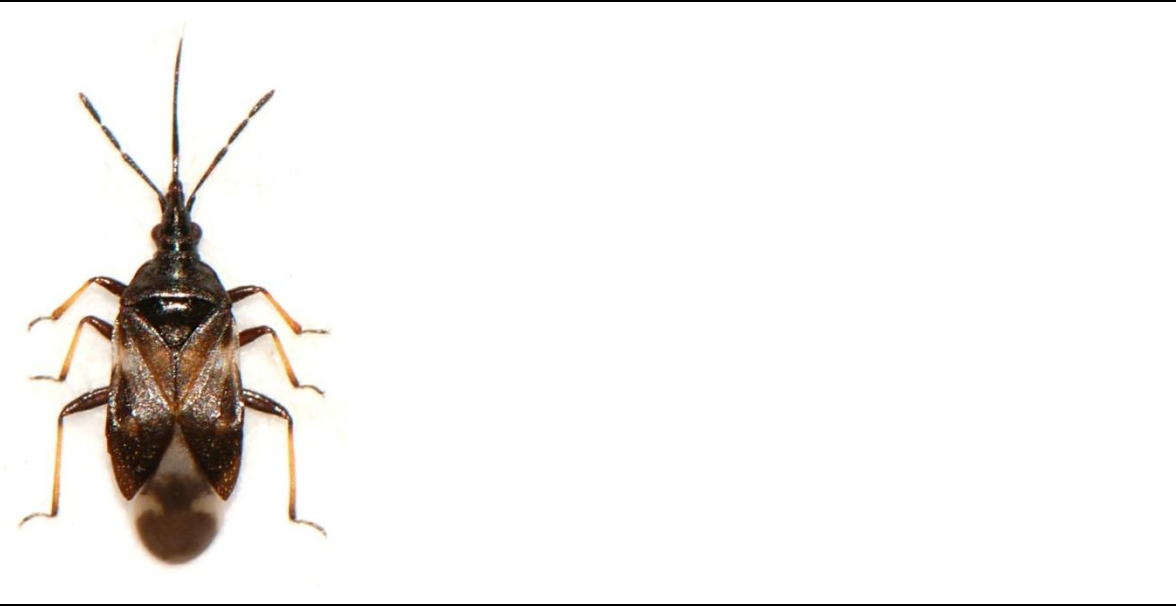
*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from a car park, garden (n), plantation, and wood; specifically from lichens on sycamore, spruce, old apple tree, lichen-covered trunks of ash and poplar, and lower trunk of an ash tree (n). It has been taken sweeping, and under mats of lichen (*Xanthoria parietina*) on boulders (n).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May			1			
June			1	1	1	
July	2 N				1	1
August				2		3
September		1			1	1
October	1					
November						
December						



***Temnostethus tibialis* Reuter (Anthocoridae)**

*Common name.* The Scarce Lichen Flowerbug.

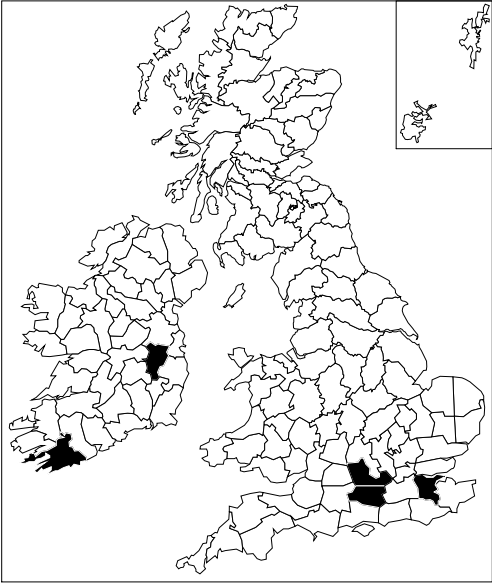
*First report.* EMM107:170-171 as *Temnostethus tibialis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from beating oak, on the trunk of a felled oak tree, and crawling on a sap-run on an oak trunk in a wood.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June					1	
July	1	1				
August						
September						
October	1					
November						
December						

No habitus images are available.

***Tetraphleps bicuspis* (Herrich-Schaeffer) (Anthocoridae)**

*Common name.* The Larch Flowerbug.

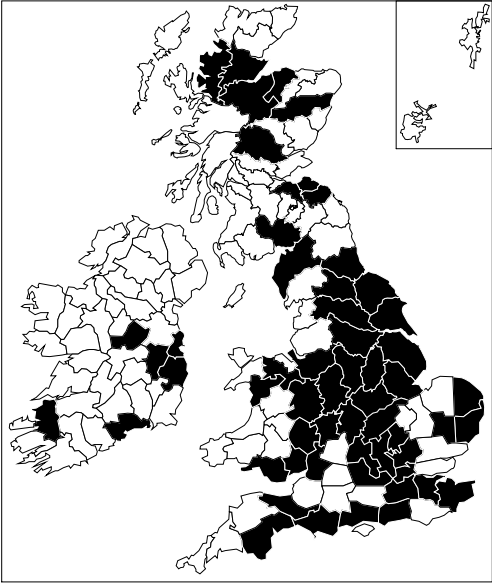
*First report.* D&S1865 as *Tetraphleps vittatus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from larch plantation (n); specifically from larch, spruce (w), pine, and under larch bark (w). It has been taken beating, sweeping, and amongst sawdust in a laboratory. Eggs dissected from females seen to be in late embryo development, hatching in culture on damp tissue paper 3-4 days later.



	1-5	6-10	11-15	16-20	21-25	26-
January		1				1
February				1		
March						
April						
May						
June	1					2
July	1	2		7		
August		3	3	1	1	1
September	3	2	1	2	3	
October	4	1	1		1	
November						
December						



***Xylocoridea brevipennis* Reuter (Anthocoridae)**

*Common name.* The Hawthorn Cortical Flowerbug.

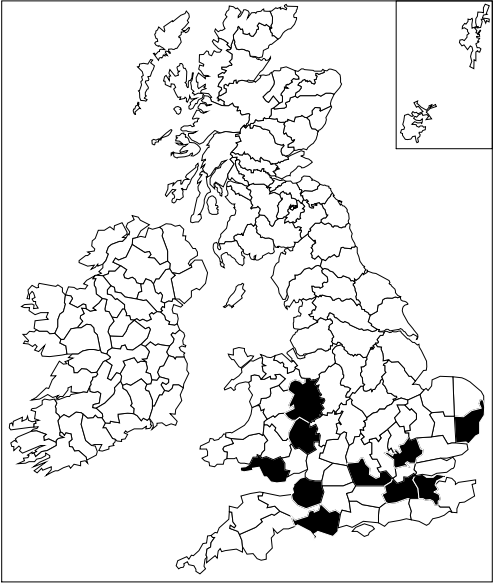
*First report.* EMM34:251 as *Xylocoridea brevipennis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from under the bark of hawthorn (w), old apple tree in an orchard, *Cossus*-infested alder, and sycamore (n).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March	1					
April						
May						
June						
July	1					
August						
September						
October			1			1 N
November			1		1	
December						

No habitus images are available.

*Xylocoris cursitans* (Fallén) (Anthocoridae)

*Common name.* The Common Cortical Flowerbug.

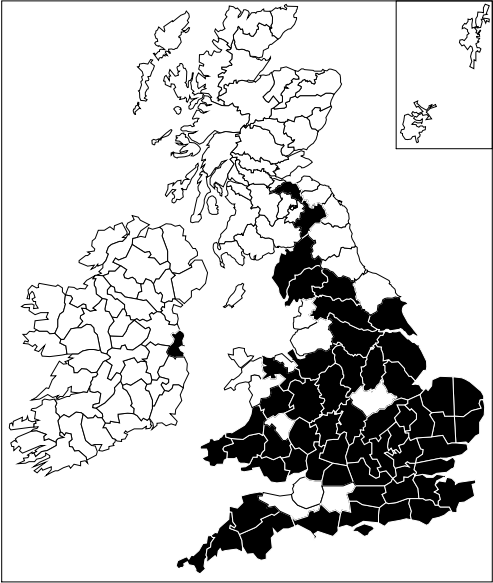
*First report.* D&S1865 as *Piezostethus rufipennis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from woodland (w); specifically from under the bark of trunks (w, n), logs, stumps and branches (w) of trees (oak (w, n), ash, and beech (w)), under the bark of sycamore (*Acer pseudoplatanus*) killed by sooty bark disease, and in moss on a poplar. Seen feeding on thrips under the bark of beech.



	1-5	6-10	11-15	16-20	21-25	26-
January			1			
February	1				2	1
March				1	1	3
April	3	2			1	3
May		1			1	
June			3 N		6 N	2
July	6	1	2	2	3	2
August	2	1	2	1		2
September	1	1	1	1	3 N	1
October	2	3	1			
November		1				
December	1					

No habitus images are available.

***Xylocoris flavipes* Reuter (Anthocoridae)**

*Common name.* The Warehouse Flowerbug.

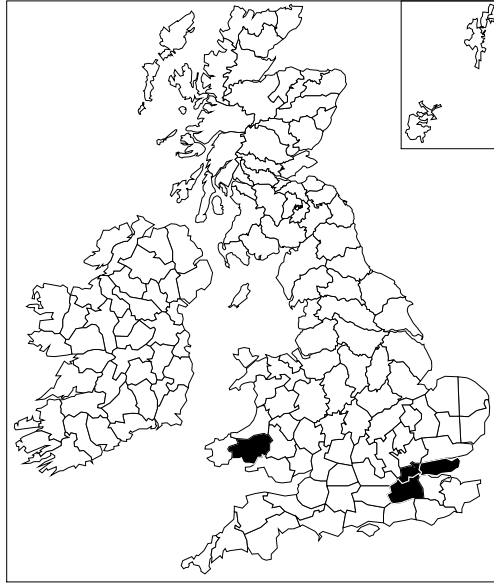
*First report.* EMM81:253-273 as *Arrostelus flavipes* (Hem8:276-277).

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from a corn store and a warehouse.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April	1					
May						
June						
July						
August						
September						
October						
November						
December						

No habitus images are available.

*Xylocoris formicetorum* (Boheman) (Anthocoridae)

*Common name.* The Ant Nest Flowerbug.

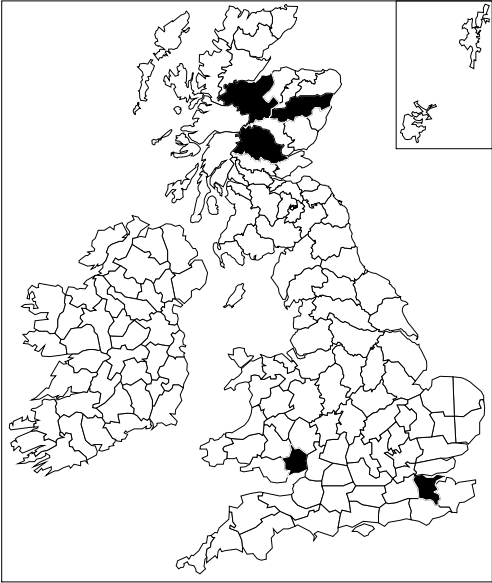
*First report.* EMM11:173-174 as *Piestostethus formicetorum*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from the nests of *Formica rufa*. Obtained sieving pine needles and other vegetable refuse of which the nests of *Formica rufa* are constructed. Lives both deep in the nests and also in the upper and central parts.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March			1			
April						
May				1		
June		1 N				
July				2		
August						1
September		1		N		
October				1 N		
November						
December						

No habitus images are available.

***Xylocoris galactinus* (Fieber) (Anthocoridae)**

*Common name.* The Hotbed Flowerbug.

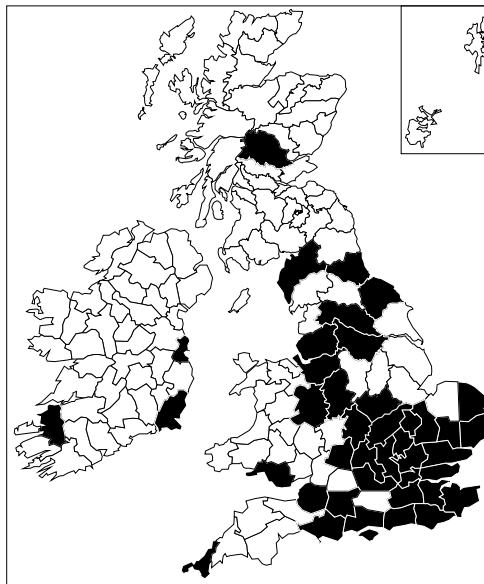
*First report.* D&S1865 as *Piezostethus galactinus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from deep-pit poultry house, marshy places, cindery ground, refuse dump, and a bus; specifically from garden refuse, straw in heaps of stable-dung in fields, grass heap, ivy under *Tilia*, litter, marsh haystacks, sedge stacks, stable refuse, and under sacking. It has been taken sweeping a mown woodland clearing in the vicinity of stacks of cuttings, in a suction trap, aerial netting at 50 ft and 2000 ft over a grassy sports field, tapping the overhanging thatch of a large compost heap in partial tree shade beside a car park, and sieving the contents of bins containing home-grown wheat and oats in a mill (w). In culture with grain samples, first and second instar nymphs were seen to feed on the mites *Tyrolichnus casei*, *Leiodynychus krameri* and *Hypoaspis freemani*. Later instars and adults were seen to feed on larvae of the beetle *Laemophloeus ferrugineus*. The adults were carriers of *Tyroglyphid hypopi* and adult *Cheletomorpha venustissima*.



	1-5	6-10	11-15	16-20	21-25	26-
January			1			
February						
March					1	
April			1			
May			1			
June		1	1	1		2
July		1		1	1	1
August		3	4	2		2
September	2		4	3	2	
October	2	2	1			1
November						
December	1			1		

No habitus images are available.

**Appendix: *Anthocoris nemorum* (Linnaeus) (Anthocoridae) - Other details**

Reported from derelict grassy area, garden (n), marsh, around a pond, orchard, chalky bank, chalk-pit, derelict bombed site (n), sandy places, woodland, river wall, sea wall, old blackcurrent plantations (n), demolition sites, meadow, naturally-vegetated derelict sites, sands along the seashore, edge of a wood, banks of a river, hedge, house, sea cliff, ditches, yew wood (n), and edge of a canal (n); specifically from *Urtica dioica* (n), umbelliferous flowers, Pellitory-of-the-wall (*Parietaria diffusa*) (n), Small Nettle (*Urtica urens*) (n), rambler roses (n), *Salix*, oak, poplar, marsh herbage, *Malus* (n), *Pyrus*, hazel, *Rubus*, hops, ivy flowers, *Lotus*, strawberry, flowers of Mexican Orange (*Choisya ternata*), fir trees (w), Compositae flower heads, *Chrysanthemum* leaves (n), broom, bramble, *Stachys sylvatica*, aspen, birch, ash, apple blossom, cultivated leek (*Allium porrum*), flowering heads of Broad-leaved Ragwort, lime, sycamore, hawthorn, elm, beech, box, sallow blossom, rowan, potato haulms (n), ornamental cypress (*Cupressus macrocarpa* 'Goldcrest'), pine, alder, *Ribes nigrum*, *Lonicera periclymenum*, and various grasses. It has been taken sweeping, beating, suction sampling, in a light trap, in a suction trap, tapping the overhanging thatch of a large compost heap in partial tree shade beside a car park, under flaky sycamore bark (w), visiting sap exudation from an oak, on fungus, inside a fallen walnut, in the rolled leaf galls of the psyllid *Psyllopsis fraxini* from an ash hedge in a garden, in the nest of the bee *Bombus agrorum*, in a Malaise trap, in old bird's nest (w), in the flowers of Hedge Bindweed (*Calystegia sepium*) growing over sea-rounded boulders just above high tide mark (n), on a blanket drying in a garden, in an emergence trap over a standing dead trunk of oak in a garden, on grass beneath apple trees and in sackbands from trunks of apple trees, in an old *Brassica* seedbed overgrown with weeds, aerial netting at 50 ft over a grassy sports field, and from a tussock of *Deschampsia caespitosa* (n).

Seen feeding on Collembola, Psocoptera, Thysanoptera, *Lygus* (on *Chrysanthemums*), mirids (on *Sarothamnus scoparius*), Cicadellidae (on *Rubus* and Apple), *Psylla mali* (in laboratory), Pear psylla (on pear), *Arytaina* (on *Sarothamnus scoparius*), *Aphis fabae* (on *Vicia faba*, *Euonymus europaeus* and in laboratory), aphid *Amphorophora rubi* (on *Rubus*), *Pemphigus bursarius* (in leaf galls of *Populus*), *Pentatrichopus fragarifolii* (on strawberry), *Aulacorthum circumflexum* (in laboratory), *Rhopalosiphum insertum* eggs (in laboratory), *Acyrrhosiphon pisum* (in laboratory), *Acyrtosiphon spartii* (on *Sarothamnus scoparius*), aphida (on *Humulus lupulus*), apple aphids (on apple), *Conwentzia pineticola* (on apple), Lepidoptera larvae (on *Sarothamnus scoparius*), *Stethorus punctillum* larvae (on apple), *Oligota flavicornis* larvae (on apple), *Phytodecta olivacea* (on *Sarothamnus scoparius*), gall midges (on *Salix*), *Dasyneura pyri* (on pear), Dipterous larvae (on apple), red spider mite *Tetranychus telarius* and eggs (n) (on *Rubus* and *Humulus lupulus*), *Panonychus ulmi* (on *Rubus* and apple), Psyllids (on *Urtica*), eggs of the sawfly *Nematus piliserra*, potato aphid (*Macrosiphum euphorbiae*) (on potato haulms), eggs of *Metatropis rufescens* (n), aphids and *Tetranychus telarius* (on hops), adults of the delphacid *Conomelus anceps* (n) (in rushes), nymphs of the beech aphid (*Phyllophis fagi*) (in culture), jassids (*Typhlocyba tenerrima*, *T. ulmi* and *Empoasca flavescens*), red spider mite *Oligonychus ulmi* and eggs (n) (on *Rubus*), other *A. nemorum* (in culture) (n), non-selectively on aphids and psyllids (on broom), hop leaves and 'hop lice', and biting people and sucking blood. Seen captured and devoured by a female Asilid fly (*Neoitamus cyanurus*), and prey to adult female Wolf Spider (*Lycosa lugubris*).

One study states it is active, and occasionally feeding, on sunny days in all winter months. In spring, large numbers suddenly emerge when conditions are suitable; in south-east England this is some time in March or early April. At first they tend to aggregate on *Salix*, on which the catkins open early; they are then found on various trees as the buds open and prey becomes available, and later extend on to herbaceous plants. Generally the majority of adults found in the spring are fertilised females, the males having died the previous autumn, but in some situations and some years males are also found in spring, and copulation occurs. It would appear that the composition of the emerging population depends on the structure of the population in the previous summer and autumn. If young males and females are forced to overwinter by the onset of unfavourable conditions, both sexes are likely to be found in the following spring, whereas if they mature somewhat earlier and mating occurs, the males die before the winter. Egg-laying starts soon after the general appearance of adults in the spring. However, field conditions are often marginal in March and April, and only a small number of eggs are laid during this time. The first nymphs were normally found on trees within the first three weeks of May, but one to two weeks later on herbage such as nettle and blackberry in the same situation. The peak of first generation nymphs was in June; the second generation was abundant in late July and August, and extended until October when a few entered hibernation as nymphs, although the majority had become adult. Overwinters under moss and loose bark, in crevices and in rubbish on the ground.

Another study states that it has two generations per year in Southern England (but only a single generation per year in Scotland). The overwintered adults (practically all females) emerge from hibernation in mid to late March and aggregate especially on *Salix*. The population gradually disperses to other plants as these come into leaf and become inhabited with suitable prey. Oviposition commences in mid-April, larvae occurring about one month later, and the first adults occur in the latter half of June. The generations overlap in late June and early July. Second-generation larvae are present from July to October. The extreme length of the generations is due to an extended oviposition period and variability in larval duration. It hibernates under bark, in litter, in plant stems and similar protected niches.

Another study states that eggs are often laid where there is an abundance of red spider mite. In culture, laid eggs on detached nettle leaves. Avoided leaf areas treated with the entomopathogenic fungus *Beauveria bassiana* (Balsamo) Vuillemin (Ascomycota: Hypocreales), and *Beauveria bassiana* sporulating nettle aphid cadavers. Suggest that the bug detects and avoids *Beauveria bassiana* on host plants. Eggs laid singly and partially embedded in the lower epidermis of plum leaves badly attacked by *Oligonychus ulmi*.

## A REVIEW OF THE PUBLISHED RECORDS FOR THE HEMIPTERA-HETEROPTERA OF THE BRITISH ISLES: (20) THE FAMILY CIMICIDAE

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### Introduction

This is the twentieth part of the review of the records of Hemiptera-Heteroptera in the British Isles published in the specialist entomological literature, which covers the Cimicidae, up to the end of 2019. The scope, objectives and method of this work are set out in the Introduction (first part) of the review (Hem7:1-5). The vice-county records for the bugs have already been presented elsewhere in this journal, and are summarised in the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The remaining results of the review are given below, which are limited to records explicitly stated as being from the British Isles. These results comprise a list of all the heximonth records, that is records dated with sufficient precision to be assigned to a specific heximonth (Hem5:52-68); and a list of all the detailed records, that is, records that are not limited to date and location and refer to other aspects of the species' natural history. Duplicate records, the same record published in different articles, are excluded, with only the original record included. There is also a complete bibliography of all the references consulted in this part of the review. These are grouped by the names used in the literature, and thereby provide a synonymy for each species, for those sources listed in the Introduction. There is no reference list, instead references are cited in-line using the method of abbreviation described in the Introduction. Records which refer to ambiguous species names (Hem2:4-8, Hem3:15-17, Hem5:14-15 & Hem5:114-118) are listed separately, under a heading marked 'AMBIGUOUS'. The article is concluded with a tabulated summary of the results of the review, which excludes ambiguous records.

What is not stated in this review (the 'gaps') is arguably just as important as what is stated, which hopefully will provide an impetus to future research on the Hemiptera-Heteroptera in these islands. Consequently, I would be grateful to hear from any reader who has information which is new to that collected in this review, and who would be willing to publish it.

### Heximonth records

#### *Cimex lectularius* Linnaeus (Cimicidae)

- 02E: 25 February 1926 [Woolwich, Kent. LondonHets]
- 03A: 3 March 1935 [Woolwich, Kent. LondonHets]
- 04D: 20 April 1901 [Lewisham, Kent. LondonHets]
- 05A: 5 May 1904 [Woolwich, Kent. LondonHets]
- 06A: 4 June 1902 [Fleet Street, London, Middlesex. Male. LondonHets] 4 June 1929 [Putney, Surrey. LondonHets]
- 06C: 11 June 1938 [St George's Hospital, London, Middlesex. LondonHets]
- 08C: 14 August 1935 [Slough, Buckinghamshire. LondonHets]
- 08F: 31 August 2007 [High Holborn, London, Middlesex. Adult. HN10:13]
- 09C: 13 September 1874 [G. Wootton. EMM69:234-245]
- 09E: 23 September 1959 [Dartford, Kent. LondonHets]
- 11A: 3 November 1939 [Woolwich, Kent. LondonHets]
- 11E: 25 November 2010 [Sleaford, VC53. Hem3:86]

#### *Cimex pipistrelli* Jenyns (Cimicidae)

- 04E: 24 April 1916 [Thame Park, Oxfordshire. Adults and nymphs. EMM52:142]
- 05C: 12 May 1992 [Near Thetford Warren, VC26. Hem4:44]
- 05F: 29 May 1958 [Langley Park Lake, near Maidstone, Kent. EMM96:183]
- 06A: 4 June 1900 [Toome, Lough Neagh. IrelandHets]

- 07B: 10 July 1958 [Sandhurst, Gloucestershire. GloucsHets]  
 07E: 21 July 1954 [Slough, Buckinghamshire. EMM92:138-141]  
 07F: 27 July 1954 [Slough, Buckinghamshire. Adults. LondonHets]  
 11B: 10 November 1952 [Wanstead Park, Essex. Adults and nymphs. EMM90:35]

*Oeciacus hirundinis* (Lamarck) (Cimicidae)

- 01D: 18 January 1971 [Croxton, near Thetford, Norfolk. ERJV89:276]  
 02D: 20 February 1935 [Brasted, near Westerham, Kent. LondonHets]  
 03A: 2 March 1935 [Brasted, near Westerham, Kent. Males and females. LondonHets] 1 March 1935 [Brasted, near Westerham, Kent. LondonHets]  
 03E: 21 March 1947 [Salisbury, Wiltshire. EMM88:45]  
 04F: 26 April 1984 [RHS Garden, Wisley, Surrey. PTBENHS17:100] 26 April 1934 [Stanmore, Middlesex. LondonHets]  
 06B: 9 June 1931 [Imperial College Biological Field Station, Slough. TSBE2:47-67]  
 06E: 21 June 1934 [Mill Hill, Middlesex. EMM71:48-49]  
 07F: 31 July 1952 [Flatford Mill, Suffolk. EMM90:81-82]  
 08E: 22 August 1952 [Flatford Mill, Suffolk. EMM90:81-82]  
 09A: 4 September 1935 [Windsor Forest, Berkshire. ERJV47:130]  
 09F: 26 September 2006 [Thorpe-le-soken, Essex. BJENH20:191]  
 10A: 5 October 1950 [Flatford Mill, Suffolk. PTSLENHS1950-51:53]  
 11E: 21 November 1958 [Drybrook, Gloucestershire. GloucsHets]  
 12B: 7 December 1958 [Ashleworth, Gloucestershire. GloucsHets]

**Detailed records**

*Cimex lectularius* Linnaeus (Cimicidae)

- In a woman's ear [St George's Hospital, London, Middlesex. 11 June 1938. LondonHets]  
 On a leaf of a Plane tree, *Platanus* species [High Holborn, London, Middlesex. 31 August 2007. Adult. HN10:13]  
 Fed on by *Reduvius personatus* in culture [Ashford. EMM45:280]  
 In houses [Bedfordshire. EMM86:6-8]  
 From recently bought bedding [Carlin How, Yorkshire. EG39:140]  
 In animal houses [Hampstead, Middlesex. June 1929. LondonHets]  
 From a bedroom [London, SW17. PTBENHS10:108]  
 Bit two ladies [Mortlake. 1503. Butler1923]  
 In the cracks and crevices of woodwork in galleries of coal mines [Northumberland. Butler1923]  
 In a building. In culture, obtained eggs and hatched, nymphs surviving without food from October till January [Paddington Infirmary, London. Autumn 1911. PSLENHS1911-12:93-94]  
 In a house [Peterborough. 2007. HN11:11]  
 From old buildings [Peterborough, Northamptonshire. EG20:125-135]  
 On an outpatient's sleeve [St Bartholomew's Hospital, Surrey. June 1993. BJENH7:175]  
 On a bedroom wall [St Paul's Cray, Kent. July 1963. LondonHets]  
 In lodgings [Suffolk. SuffolkHets]

*Cimex pipistrelli* Jenyns (Cimicidae)

- In a woodpecker's old nesting hole in a blown-down, rotten elm [Thame Park, Oxfordshire. 24 April 1916. Adults and nymphs. EMM52:142]  
 Off a noctule bat, *Nyctalus noctula* [Langley Park Lake, near Maidstone, Kent. 29 May 1958. EMM96:183]  
 On bats [Toome, Lough Neagh. 4 June 1900. IrelandHets]  
 From a noctule tree-hole roost [Sandhurst, Gloucestershire. 10 July 1958. GloucsHets]  
 From pipistrelle bats (*Pipistrellus pipistrellus*) or their roosts [Slough, Buckinghamshire. 21 July 1954. EMM92:138-141]  
 In a pipistrelle's roost under the eaves of a house [Slough, Buckinghamshire. 27 July 1954. Adults. LondonHets]

In a hollow tree. Fed on human blood in culture, and adults laid eggs [Wanstead Park, Essex. 10 November 1952. Adults and nymphs. EMM90:35]  
In bat's nests [England. EMM8:64-65]

*Oeciacus hirundinis* (Lamarck) (Cimicidae)

In the nest of a house martin from the wall of a cottage [Croxtan, near Thetford, Norfolk. 18 January 1971. ERJV89:276]  
Taken alive from a house martin's nest of the previous year from the eaves of a building [RHS Garden, Wisley, Surrey. 26 April 1984. PTBENHS17:100]  
Infesting cottage [Stanmore, Middlesex. 26 April 1934. LondonHets]  
In sparrow's nest in martin's old nest [Imperial College Biological Field Station, Slough. 9 June 1931. TSBE2:47-67]  
From a house [Mill Hill, Middlesex. 21 June 1934. EMM71:48-49]  
In a House Martin's nest that fell from the eaves of a building [Flatford Mill, Suffolk. 31 July 1952. EMM90:81-82]  
In a House Martin's nest [Flatford Mill, Suffolk. 22 August 1952. EMM90:81-82]  
In a house martin's nest under the eaves of a building [Windsor Forest, Berkshire. 4 September 1935. ERJV47:130]  
From a house martin's nest [Thorpe-le-soken, Essex. 26 September 2006. BJENH20:191]  
In a house martin's nest [Flatford Mill, Suffolk. 5 October 1950. PTSLENHS1950-51:53]  
On a dead swallow [Armagh. EMM29:35-37]  
In nests of House Martin [Barrowden, Rutland. 1954. Males and females. EMM93:49-51]  
From house martin nests [Bedford, Bedfordshire. Nymphs and adults. EMM86:301]  
In martin's nest [Brasted, near Westerham, Kent. June 1935. LondonHets]  
From a house martin's nest [Brookman's Park, Hertfordshire. June 1934. EMM71:48-49]  
In the nests of the common house martin [Cambridgeshire. EMM4:20-21]  
On the window sills, etc. of a house, round which were numerous martin's nests [Chobham. EMM13:113-114]  
Swarming on window near martin's nest under eaves of a house [Chobham, Surrey. August 1876. LondonHets]  
In a used house martin's nest [Eversholt, Buckinghamshire. January 2006. BJENH20:191-192]  
In a house and on the windows [Haberdasher's School, Monmouth. June 1983. EMM120:222]  
In nests of House Martin [Hampshire. HantsHets]  
In house [Mill Hill, Middlesex. June 1934. LondonHets]  
From nest of house martin, taken on the window-sill of a house [Neighbourhood of Chobham. PESL1876:xxvi]  
In house martin nests under the eaves of a building [Sewage farm, Weybridge, Surrey. September 1934. EMM71:48-49]  
In nests of the house martin [Shapwick Manor, near Bridgewater, Somerset. January 1974. ERJV89:122]  
From a house martin's nest under the eaves of a house [Stogursey, Somerset. Nymphs. EG40:337-343]  
In artificial house martin nests under the eaves of a bungalow. Also in natural nests in the same locality [Syston, Lincolnshire. 1995-96. EMM135:237-240]  
About a house in the vicinity of nests [Tunbridge Wells. EMM4:20-21]  
In martin's nests [Tunbridge Wells. D&S1865]  
On a window sill beneath a house martin's nest [Wallington, Surrey. October 1993. BJENH7:175]

### Bibliography

*Cimex columbarius* Jenyns (Cimicidae)

as *Acanthia columbaria* EMM33:185, EMM33:208-209, EMM34:138, EMM69:234-245,  
EMM8:64-65, Synopsis1875  
as *Acanthia Columbaria* D&S1865  
as *C. columbarius* EMM81:253-273, EMM82:94-95

- as *Cim. columbarius* EMM91:7-27
- as *Cimex columbarius* BJENH26:209-210, BJENH32:363-364, Butler1923, CornwallHets, EMM115:139-144, EMM120:207-210, EMM33:159, EMM4:20-21, Ent94:133-134, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:16, Hem3:6, Hem3:77, Hem4:105, Hem4:30, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:122, Hem5:151, Hem5:29, Hem5:6, Hem6:271, Hem6:93, HN10:13, HSGN1:4, HSGN12:7, HSGN13:11, HSGN4:A7, HSGN4:A9, HSGN8:9, Saunders1892, TRESL89:543-568, TSBE1:51-84
- as *Cimex lectularius columbarius* LondonHets, S&L1959
- Cimex lectularius* Linnaeus (Cimicidae)
- as *Acanthia lectularia* D&S1865, EMM18:145, EMM26:81-82, EMM33:159, EMM33:208-209, EMM34:138, EMM4:30-33, EMM69:234-245, EMM8:64-65, Ent27:222, Synopsis1875
- as *C. lectularius* EMM81:253-273
- as *Cim. lectularius* EMM91:7-27
- as *Cimex lectularius* BJENH10:239-240, BJENH26:209-210, BJENH7:175, Butler1923, CornwallHets, EG20:125-135, EG39:140, EMM101:163-164, EMM11:184-186, EMM120:207-210, EMM16:172-175, EMM17:10-15, EMM19:202-203, EMM45:280, EMM53:112-113, EMM71:48-49, EMM74:150-151, EMM80:75, EMM86:6-8, EMM91:96-97, Ent32:3-8, Ent89:223-231, Ent94:133-134, Ent94:40-43, ERJV90:321-324, GloucsHets, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:16, Hem2:33, Hem3:26, Hem3:27, Hem3:43, Hem3:6, Hem3:77, Hem3:86, Hem4:105, Hem4:135, Hem4:30, Hem4:45, Hem4:6, Hem4:73, Hem4:88, Hem5:106, Hem5:122, Hem5:139, Hem5:162, Hem5:18, Hem5:195, Hem5:206, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem5:72, Hem5:95, Hem6:235, Hem6:271, Hem6:93, HN10:13, HN11:11, HN11:9, HN16:4, HN17/18:26, HSGN1:15, HSGN13:11, HSGN4:A9, IrelandHets, PRESL(A)14:50, PSLENHS1911-12:93-94, PSLENHS1913-14:104, PSLENHS1920-21:67, PTBENHS10:108, PTBENHS10:110, PTSLENHS1962:123-183, Saunders1892, SuffolkHets, TRESL103:171-218, TRESL89:543-568, TSBE1:1-32, TSBE1:51-84, TSBE11:245-280
- as *Cimex lectularius lectularius* LondonHets, S&L1959
- Cimex pipistrelli* Jenyns (Cimicidae)
- as *Acanthia pipistrelli* EMM33:208-209, EMM69:234-245, EMM8:64-65, Synopsis1875
- as *Acanthia Pipistrelli* D&S1865
- as *C. dissimilis* EMM81:253-273
- as *C. pipistrelli* EMM81:253-273
- as *Cim. dissimilis* EMM91:7-27
- as *Cim. pipistrelli* EMM91:7-27
- as *Cimex dissimilis* BJENH32:363-364, Butler1923, EMM81:253-273, EMM92:138-141, Ent94:133-134, HantsHets, HSGN4:A7, HSGN4:A9, LondonHets, S&L1959
- as *Cimex pipistrelli* Butler1923, EMM4:20-21, EMM52:142, EMM88:6, EMM89:72, EMM90:35, EMM92:138-141, EMM96:183, Ent94:133-134, GloucsHets, HantsHets, Hem1:2, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:34, Hem3:26, Hem3:27, Hem3:43, Hem3:56, Hem3:6, Hem4:105, Hem4:135, Hem4:30, Hem4:44, Hem4:6, Hem4:73, Hem5:106, Hem5:122, Hem5:162, Hem5:195, Hem5:206, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem6:235, Hem6:94, HN9:4, HSGN1:4, HSGN13:11, HSGN14:8, HSGN4:A9, IrelandHets, LondonHets, PSLENHS1898:16-23, PTSLENHS1952-53:57, PTSLENHS1962:123-183, S&L1959, Saunders1892
- as *Cimex pipistrelli dissimilis* Ent94:133-134
- as *Cimex pipistrelli pipistrelli* Ent94:133-134
- as *Cimex pipistrellus* PSLENHS1920-21:67
- Oeciacus hirundinis* (Lamarck) (Cimicidae)
- as *Acanthia hirundinis* EMM13:113-114, EMM13:117, EMM33:208-209, EMM69:234-245, EMM8:64-65, PESL1876:xxvi, Synopsis1875
- as *Acanthia Hirundinis* D&S1865

as *Cimex hirundinis* Butler1923, EMM29:35-37, EMM4:20-21, PESL1921:ii, PSLENHS1898:16-23, Saunders1892, TSBE2:47-67  
 as *O. hirundinis* EMM81:253-273  
 as *Oec. hirundinis* EMM91:7-27  
 as *Oeciacus hirundinis* BJENH20:191, BJENH20:191-192, BJENH7:175, EG40:337-343, EMM120:222, EMM135:237-240, EMM71:48-49, EMM74:150-151, EMM86:301, EMM87:64, EMM88:45, EMM90:81-82, EMM93:49-51, ERJV47:130, ERJV88:265, ERJV89:122, ERJV89:276, GloucsHets, HantsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:96, Hem2:22, Hem2:34, Hem3:26, Hem3:27, Hem3:43, Hem3:6, Hem3:77, Hem4:105, Hem4:135, Hem4:30, Hem4:6, Hem4:73, Hem5:106, Hem5:123, Hem5:186, Hem5:29, Hem5:59, Hem5:6, Hem5:72, Hem5:95, Hem6:277, Hem6:94, HN6:2, HSGN1:11, HSGN13:11, IrelandHets, LondonHets, PTBENHS10:110, PTBENHS17:100, PTBENHS9:57, PTSLENHS1950-51:44-45, PTSLENHS1950-51:53, PTSLENHS1962:123-183, S&L1959, TSBE11:245-280  
 as *Oeciacus hirundinis* EMM115:139-144

### Tabulated summaries

On the following pages are summaries of the results of this review for each of the species in scope. The common name is that used in the literature consulted; or has been created from aspects of the species natural history. The first report is the first mention of the species in the literature consulted, starting at D&S1865. The ambiguities, if they occur, refer to the ambiguous species names of Hem2:4-8, Hem3:15-17, Hem5:14-15 and Hem5:114-118. The geographical distribution is based upon records published elsewhere in this journal; and is shown as a map from the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The presence of a vice-county record is shown with a black fill, and the absence with a white fill. The seasonal distribution is based on the heximonth records listed above and is shown as a calendar. The presence of an adult record is shown with a black fill, and the absence with a white fill, with a figure representing the number of distinct records in the above list. The existence of nymph and egg records is shown by the letters 'N' and 'E', respectively, without a figure. Heximonth records are assumed to be adult unless explicitly stated otherwise. The other details is a narrative constructed from the detailed records listed above. Aspects of the narrative which include records for nymphs or eggs are marked '(n)' or '(e)', respectively. Those that include winter records (which I define as 1st January to 31st March) are marked '(w)'. Habitus photographs of the species are included, where available.

***Cimex columbarius* Jenyns (Cimicidae)**

*Common name.* The Pigeon Bedbug.

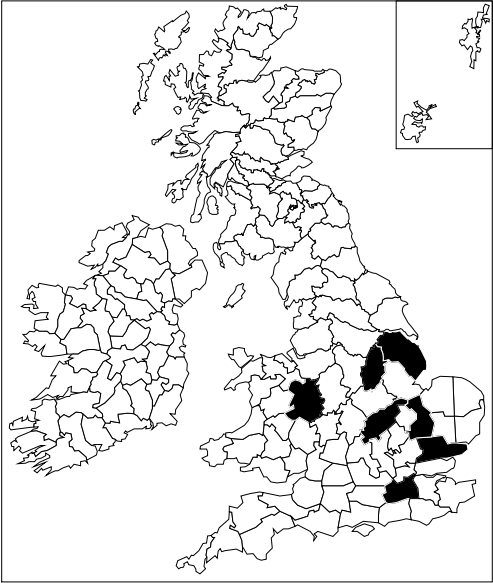
*First report.* D&S1865 as *Acanthia Columbaria*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* None reported.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

No habitus images are available.

***Cimex lectularius* Linnaeus (Cimicidae)**

*Common name.* The Human Bedbug.

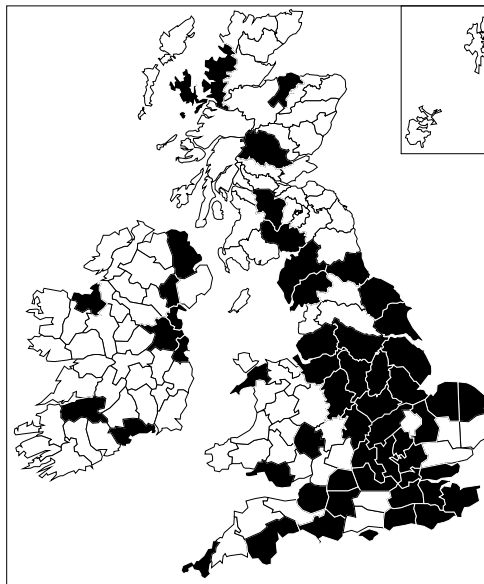
*First report.* D&S1865 as *Acanthia lectularia*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from buildings, bedrooms, recently bought bedding, a woman's ear, animal houses, the cracks and crevices of woodwork in galleries of coal mines, an outpatient's sleeve, and a leaf of a Plane tree. It is said to have 'bit two ladies'. In culture, hatched nymphs survived without food from October till January. It was fed on by *Reduvius personatus* in culture.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February					1	
March	1					
April				1		
May	1					
June	2		1			
July						
August			1			1
September			1		1	
October						
November	1				1	
December						

No habitus images are available.

***Cimex pipistrelli* Jenyns (Cimicidae)**

*Common name.* The Bat Bedbug.

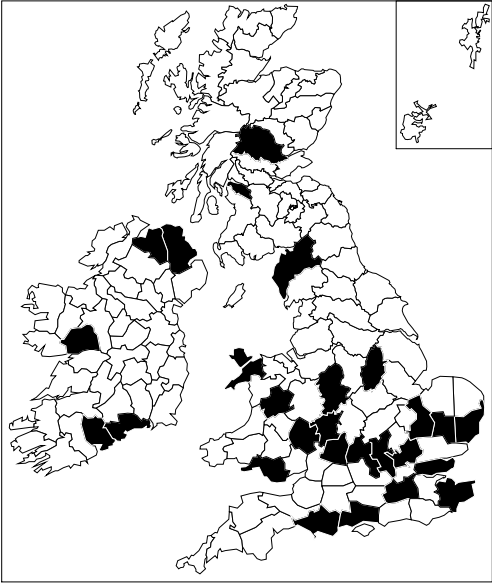
*First report.* D&S1865 as *Acanthia Pipistrelli*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from noctule bat (*Nyctalus noctula*), noctule tree-hole roost, pipistrelle bat (*Pipistrellus pipistrellus*), pipistrelle's roost under the eaves of a house, a woodpecker's old nesting hole in a blown-down rotten elm (n). Adults and nymphs from a hollow tree fed on human blood in culture, and adults laid eggs.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April					1 N	
May			1			1
June	1					
July		1			1	1
August						
September						
October						
November		1 N				
December						

No habitus images are available.

***Oeciacus hirundinis* (Lamarck) (Cimicidae)**

*Common name.* The Martin Bedbug.

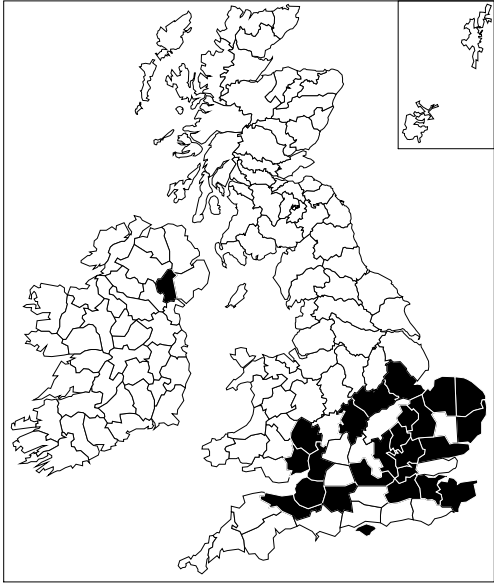
*First report.* D&S1865 as *Acanthia Hirundinis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from house martin nests (w, n), house, windows, window sills, and a dead swallow.



	1-5	6-10	11-15	16-20	21-25	26-
January				1		
February				1		
March	2				1	
April						2
May						
June		1			1	
July						1
August					1	
September	1					1
October	1					
November					1	
December		1				

No habitus images are available.

## A REVIEW OF THE PUBLISHED RECORDS FOR THE HEMIPTERA-HETEROPTERA OF THE BRITISH ISLES: (21) THE FAMILY MICROPHYSIDAE

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### Introduction

This is the twenty-first part of the review of the records of Hemiptera-Heteroptera in the British Isles published in the specialist entomological literature, which covers the Microphysidae, up to the end of 2019. The scope, objectives and method of this work are set out in the Introduction (first part) of the review (Hem7:1-5). The vice-county records for the bugs have already been presented elsewhere in this journal, and are summarised in the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The remaining results of the review are given below, which are limited to records explicitly stated as being from the British Isles. These results comprise a list of all the heximonth records, that is records dated with sufficient precision to be assigned to a specific heximonth (Hem5:52-68); and a list of all the detailed records, that is, records that are not limited to date and location and refer to other aspects of the species' natural history. Duplicate records, the same record published in different articles, are excluded, with only the original record included. There is also a complete bibliography of all the references consulted in this part of the review. These are grouped by the names used in the literature, and thereby provide a synonymy for each species, for those sources listed in the Introduction. There is no reference list, instead references are cited in-line using the method of abbreviation described in the Introduction. Records which refer to ambiguous species names (Hem2:4-8, Hem3:15-17, Hem5:14-15 & Hem5:114-118) are listed separately, under a heading marked 'AMBIGUOUS'. The article is concluded with a tabulated summary of the results of the review, which excludes ambiguous records.

What is not stated in this review (the 'gaps') is arguably just as important as what is stated, which hopefully will provide an impetus to future research on the Hemiptera-Heteroptera in these islands. Consequently, I would be grateful to hear from any reader who has information which is new to that collected in this review, and who would be willing to publish it.

### Heximonth records

#### *Loricula coleoptrata* (Fallén) (Microphysidae)

- 05F: 31 May 2012 [Homefield Wood, Buckinghamshire. Nymphs. Hem1:34]
- 06B: 8 June 2013 [Waterperry Wood, Oxfordshire. Nymphs reared to adults. BJENH27:11-12]
- 06C: 14 June 2012 [Homefield Wood, Buckinghamshire. Nymphs. Hem1:34]
- 06E: 22 June 1912 [Burnham Beeches, Buckinghamshire. Males. LondonHets] 25 June 2010 [Whitecross Green Wood, Watsonian Buckinghamshire. Male. BJENH27:11-12]
- 06F: 26 June 1955 [Fulmer, Buckinghamshire. LondonHets]
- 07A: 2 July 2011 [Whitecross Green Wood, Watsonian Buckinghamshire. Males. BJENH27:11-12]
- 07B: 8 July 1916 [Chipstead, Surrey. Female. LondonHets] 9 July 1989 [Mullion Cliff, West Cornwall. BJENH4:119-121]
- 08C: 12 August 1951 [Windsor Forest, Berkshire. EMM87:274]
- 10A: 1 October 1932 [Lizard, Cornwall. Females. EMM69:13-15]

#### *Loricula distinguenda* (Reuter) (Microphysidae)

- 06C: 11 June 1912 [Darenth Wood, Kent. Female. LondonHets]
- 06E: 22 June 1912 [Burnham Beeches, Buckinghamshire. LondonHets]
- 07B: 8 July 1911 [Chingford, Epping Forest, Essex. LondonHets] 8 July 2010 [The Holies, Streatley, Berkshire. Hem1:31]
- 07C: 15 July 1911 [Chingford, Epping Forest, Essex. LondonHets]

- 07D: 16 July 1932 [Eynsford, Kent. Female brachypter. LondonHets] 16 July 1971 [Grounds of Pest Infestation Control Laboratory, Slough, Buckinghamshire. EMM107:169]  
 08A: 1 August 1904 [Chobham, Surrey. LondonHets]  
 08C: 11 August 1925 [Woodford, Essex. LondonHets]  
 08F: 31 August 1962 [Bald Hill, Oxfordshire. Female. EMM99:161-162] 26 August 1924 [Ruislip, Middlesex. LondonHets]

*Loricula elegantula* (Baerensprung) (Microphysidae)

- 06B: 7 June 2013 [Homefield Wood, Medmenham, Buckinghamshire. Male nymph. BJENH31:25-26] 6 June 2000 [Predannack, Cornwall. Female. CornwallHets]  
 06F: 29 June 1959 [Theydon Bois, Epping Forest, Essex. LondonHets]  
 07A: 3 July 1956 [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. LondonHets] 4 July 1965 [Knole Park, Sevenoaks, Kents. LondonHets] 5 July 1955 [Rothamsted Experimental Station, Harpenden, Hertfordshire. Fifth instar nymphs. EMM92:54-64]  
 07B: 7 July 2016 [Cothill Pit, Cothill, Watsonian Berkshire. Females. BJENH31:25-26] 10 July 2001 [Dizzard Oakwood, Cornwall. CornwallHets] 10 July 1935 [Imperial College Biological Field Station, Slough, Buckinghamshire. JSBE1:165-166] 8 July 2019 [Pickering Cemetery, North York Moors, North-east Yorkshire. Hem6:253] 8 July 2001 [Red Moor, Cornwall. CornwallHets]  
 07C: 15 July 2016 [Buckland Warren, Buckland, Watsonian Berkshire. Females. BJENH31:25-26] 15 July 2016 [Buckland Warren, Buckland, Watsonian Berkshire. Male. BJENH31:25-26] 12 July 1903 [Dartford, Kent. LondonHets] 14 July 2016 [Shirburn Hill, Chiltern Hills, Oxfordshire. Female and male. BJENH31:25-26] 13 July 2016 [Shotover Hill, Oxford. Females. BJENH31:25-26] 13 July 2006 [Stowe Barton, Cornwall. CornwallHets]  
 07D: 20 July 1953 [Fetcham, Surrey. LondonHets] 16 July 1965 [Otford, Kent. Males and females. EMM107:44] 18 July 1953 [Rothamsted Experimental Station, Harpenden, Hertfordshire. Males. EMM92:54-64] 18 July 1964 [Ruislip NR, Middlesex. Females. LondonHets]  
 07E: 22 July 2016 [Cutteslowe Park, Oxford. Females. BJENH31:25-26] 21 July 1951 [Longdown Hill, Buckinghamshire. LondonHets] 22 July 1954 [Lower slopes of Cader Idris, Merioneth. Males, females and nymphs. EMM92:54-64] 21 July 2012 [Shennington, Oxfordshire. Females. BJENH31:25-26]  
 07F: 27 July 1963 [Knole Park, Sevenoaks, Kents. LondonHets] 29 July 1955 [Rothamsted Experimental Station, Harpenden, Hertfordshire. Adults. EMM92:54-64]  
 08A: 5 August 1907 [Chipstead, Surrey. Females. LondonHets] 1 August 1908 [Enfield, Middlesex. Females. LondonHets]  
 08B: 9 August 1984 [Darland's Lake NR, Totteridge, Hertfordshire. LondonHets] 8 August 1937 [Grounds of Rothamsted Expimental Station, Hertfordshire. Female. LondonHets]  
 08C: 13 August 1911 [Boxhill, Surrey. Female. LondonHets] 14 August 1953 [Rothamsted Experimental Station, Harpenden, Hertfordshire. Males. EMM92:54-64] 14 August 1954 [Rothamsted Experimental Station, Harpenden, Hertfordshire. Males. EMM92:54-64]  
 08D: 19 August 2002 [Penpoll Creek, Cornwall. CornwallHets]  
 08E: 25 August 1984 [Between Colchester and the Blackwater Estuary, Essex. HSGN4:4]  
 09A: 3 September 1954 [Grounds of Rothamsted Expimental Station, Hertfordshire. LondonHets] 4 September 1994 [Guiting Wood, Gloucestershire. Female. GloucsHets]

*Loricula exilis* (Fallén) (Microphysidae)

- 06D: 17 June 1909 [Lough Launaogh, Castlebar, West Mayo. IrelandHets]  
 06E: 25 June 2012 [The Holies, Streatley, North Wessex Downs, Berkshire. Nymphs reared to males and females. BJENH26:155-156]  
 06F: 29 June 2010 [Moor Copse Reserve, near Pangbourne, Berkshire. Males. BJENH26:155-156] 26 June 2012 [Warburg Reserve, near Henley, Oxfordshire Chilterns. Females. BJENH26:155-156]

- 07A: 2 July 2010 [Beacon Hill, Aston Rowant, Oxfordshire Chilterns. Male. BJENH26:155-156] 5 July 1994 [Churt, Surrey. EMM134:265-266]  
 07B: 8 July 2010 [The Holies, Streatley, North Wessex Downs, Berkshire. Males. BJENH26:155-156]  
 07C: 14 July 2016 [Shirburn Hill, Chiltern Hills, Oxfordshire. Female and male. BJENH31:25-26]  
 07D: 17 July 1926 [Shelton Abbey, Arklow, Wicklow. IrelandHets]  
 07E: 22 July 1927 [Gap of Dunloe, North Kerry. IrelandHets]  
 07F: 30 July 1987 [Broadway, Worcestershire. EMM125:49-51]  
 08A: 5 August 2016 [Aston Rowant NNR, Chiltern Hills, Oxfordshire. Females. BJENH31:25-26] 3 August 1927 [Bray Head, Wicklow. IrelandHets]  
 08B: 9 August 1915 [Chiltern Hills, Buckinghamshire. LondonHets]  
 08F: 31 August 1962 [Bald Hill, Oxfordshire. Female. EMM98:207] 29 August 2010 [Beacon Hill, Aston Rowant, Oxfordshire Chilterns. Female. BJENH26:155-156]  
 09C: 14 September 1963 [Coombe Hill, near Wendover, Buckinghamshire. Female. EMM99:161-162]

*Loricula inconspicua* (Douglas & Scott) (Microphysidae)

- 05B: 7 May 1999 [Treryn Dinas, Cornwall. CornwallHets]  
 07A: 5 July 1932 [Ballyteige Dunes, west of Kilmore Quay, Wexford. Male. IrelandHets]  
 08D: 19 August 1993 [Dawlish Warren, South Devon. EMM145:73-78]

*Loricula pselaphiformis* Curtis (Microphysidae)

- 05F: 31 May 2017 [Chipping Norton, Oxfordshire. Males and females. BJENH31:25-26]  
 06B: 6 June 2008 [Near Hitchcopse Pit, Dry Sandford, Watsonian Berkshire. Male. BJENH31:25-26]  
 06C: 12 June 1915 [Abinger, Surrey. LondonHets] 13 June 1958 [Chalk hills at Cholsey, Berkshire. Male. EMM107:44] 15 June 1960 [Near Marlborough, Wiltshire. Male. EMM107:44] 11 June 1913 [Potters Bar, Middlesex. Male and female. LondonHets]  
 06D: 19 June 1915 [Byfleet, Surrey. LondonHets]  
 06E: 21 June 1970 [Westmeston, near Ditchling, Sussex. Male. EMM107:44]  
 06F: 28 June 1914 [Ranmore Common, Surrey. LondonHets] 28 June 2010 [Warburg Reserve, near Henley, Oxfordshire. Female. BJENH31:25-26]  
 07A: 2 July 1951 [Amersham, Buckinghamshire. Male. EMM90:250] 3 July 1953 [Houghton Fell, VC64. Males and females. EMM89:294] 4 July 1965 [Knowle Park, Sevenoaks, Kent. LondonHets] 4 July 1908 [Monk Soham House, Suffolk. Ent42:212] 5 July 2016 [Wooton, Oxfordshire. Female. BJENH31:25-26]  
 07C: 14 July 2016 [Shirburn Hill, Chiltern Hills, Oxfordshire. Female. BJENH31:25-26]  
 07E: 24 July 1954 [Burnham Beeches, Buckinghamshire. LondonHets]  
 08B: 8 August 1937 [Harpenden, Hertfordshire. LondonHets]  
 09A: 4 September 1951 [Kincraig, Inverness-shire. EMM88:71]

**Detailed records**

*Loricula coleoptrata* (Fallén) (Microphysidae)

- Suction sampling moss under trees on a steep slope, later reared to adult (5 males and 7 females) in culture. Both nymphs and adults seen feeding on *Trichoribates* mites. Adults seen in copula [Homefield Wood, Buckinghamshire. 31 May 2012. Nymphs. Hem1:34]  
 Suction sampling moss [Waterperry Wood, Oxfordshire. 8 June 2013. Nymphs reared to adults. BJENH27:11-12]  
 Suction sampling moss under trees on a steep slope, later reared to adult (5 males and 7 females) in culture. Both nymphs and adults seen feeding on *Trichoribates* mites. Adults seen in copula [Homefield Wood, Buckinghamshire. 14 June 2012. Nymphs. Hem1:34]  
 In company with the ant *Acanthomyops niger* [Burnham Beeches, Buckinghamshire. 22 June 1912. Males. LondonHets]

Suction sampling over the surface of stacks of mown plant material [Whitecross Green Wood, Watsonian Buckinghamshire. 25 June 2010. Male. BJENH27:11-12]  
 On grassy bank [Fulmer, Buckinghamshire. 26 June 1955. LondonHets]  
 Suction sampling over the surface of stacks of mown plant material [Whitecross Green Wood, Watsonian Buckinghamshire. 2 July 2011. Males. BJENH27:11-12]  
 Under mat of thyme growing over rock outcrop [Mullion Cliff, West Cornwall. 9 July 1989. BJENH4:119-121]  
 Under beech bark [Windsor Forest, Berkshire. 12 August 1951. EMM87:274]  
 At roots of thyme along the cliffs [Lizard, Cornwall. 1 October 1932. Females. EMM69:13-15]  
 In nest of the ant *Acanthomyops alienus* [Burnham Beeches, Buckinghamshire. Male. LondonHets]  
 Under leaves on a hedge bank [Highgate Wood. June. Females. D&S1865]  
 Under leaves on a hedge bank [Highgate Wood. Males and females, several pairs in copula. D&S1865]  
 In nests of *Myrmica laevinodis* [Lee. Male and female. ERJV25:1-8]  
 In a nest of *A. (D.) fuliginosus* [Oxshott, Surrey. 1900. Male. AntGuests]  
 In Malaise traps at ground level near edge of birch woodland [Silwood Park, Sunninghill, Berkshire. 1991. BJENH20:49-55]  
 Sweeping grasses in a recently cleared part of the forest [Windsor Forest, Berkshire. July 1963. Males. EMM99:161-162]

*Loricula distinguenda* (Reuter) (Microphysidae)

Suction sampling moss [The Holies, Streatley, Berkshire. 8 July 2010. Hem1:31]  
 Beating a rhododendron bush [Grounds of Pest Infestation Control Laboratory, Slough, Buckinghamshire. 16 July 1971. EMM107:169]  
 On firs [Chobham, Surrey. 1 August 1904. LondonHets]  
 In dead needles under juniper [Bald Hill, Oxfordshire. 31 August 1962. Female. EMM99:161-162]  
 On lichen-covered pine bark [Grounds of The Dell, Aviemore, Inverness-shire. First two weeks of September 1966. Female. EMM103:220]  
 Fogging oaks with insecticide [Isabella plantation, Richmond Park, London. Late April to mid October 1984. Males, females and nymphs. HSGN5:7]  
 Frequent beneath cushions of western gorse (*Ulex gallii*) [Long Mynd, Salop. June 1996. BJENH10:176]  
 Cushions of western gorse [Long Mynd, Shropshire. 23 July to 8 August 1996. BJENH11:17-18]  
 Beating old lichen-covered larches [Near Busbridge, Surrey. July 1890. Males and females. EMM28:8]  
 In thatch [North Kent. August 1897. EMM33:236]  
 Sweeping along the edge of a mixed wood [Nutberry, Dumfriesshire. July. EMM70:162]  
 Beating and D-vac of birch woodland [Silwood Park, Sunninghill, Berkshire. 1977. BJENH20:49-55]

*Loricula elegantula* (Baerensprung) (Microphysidae)

Suction-sampling moss under trees. Reared to adult [Homefield Wood, Medmenham, Buckinghamshire. 7 June 2013. Male nymph. BJENH31:25-26]  
 From *Ulex gallii* cushion in pasture [Predannack, Cornwall. 6 June 2000. Female. CornwallHets]  
 On birch log [Grounds of Pest Infestation Laboratory, Slough, Buckinghamshire. 3 July 1956. LondonHets]  
 On trunks of *Populus canescens* Sm. and *Ulmus procera* Salisb. [Rothamsted Experimental Station, Harpenden, Hertfordshire. 5 July 1955. Fifth instar nymphs. EMM92:54-64]  
 In the debris from beating larch [Cothill Pit, Cothill, Watsonian Berkshire. 7 July 2016. Females. BJENH31:25-26]  
 Blackthorn and elder [Dizzard Oakwood, Cornwall. 10 July 2001. CornwallHets]  
 Crawling over lichen on bark of horse chestnut [Imperial College Biological Field Station, Slough, Buckinghamshire. 10 July 1935. JSBE1:165-166]

- Beating conifers [Pickering Cemetery, North York Moors, North-east Yorkshire. 8 July 2019. Hem6:253]
- Beating lichen-covered blackthorn, and off oak [Red Moor, Cornwall. 8 July 2001. CornwallHets]
- In the debris from beating larch [Buckland Warren, Buckland, Watsonian Berkshire. 15 July 2016. Females. BJENH31:25-26]
- In the debris from beating Douglas Fir [Buckland Warren, Buckland, Watsonian Berkshire. 15 July 2016. Male. BJENH31:25-26]
- In the debris from beating larch [Shirburn Hill, Chiltern Hills, Oxfordshire. 14 July 2016. Female and male. BJENH31:25-26]
- In the debris from beating pine [Shotover Hill, Oxford. 13 July 2016. Females. BJENH31:25-26]
- On dead aerial branches of oak in old avenue [Stowe Barton, Cornwall. 13 July 2006. CornwallHets]
- On elder infested with *Anobium punctatum* [Fetcham, Surrey. 20 July 1953. LondonHets]
- On the trunk of beech [Otford, Kent. 16 July 1965. Males and females. EMM107:44]
- In suction traps [Rothamsted Experimental Station, Harpenden, Hertfordshire. 18 July 1953. Males. EMM92:54-64]
- On birch [Ruislip NR, Middlesex. 18 July 1964. Females. LondonHets]
- In the debris from beating larch [Cutteslowe Park, Oxford. 22 July 2016. Females. BJENH31:25-26]
- On lichen and moss-covered dry stone walls at 1000 ft. Much more abundant on the lichens (*Parmelia* and *Cladonia*) than in the mosses (*Hypnum* and *Racomitrium*). When bugs were placed in a Petri dish with patches of all these plants, after 24 hours both adults and nymphs were found amongst the lichens (by allowing the lichens to dry under a light on a white sheet) [Lower slopes of Cader Idris, Merioneth. 22 July 1954. Males, females and nymphs. EMM92:54-64]
- Tree brushing [Shennington, Oxfordshire. 21 July 2012. Females. BJENH31:25-26]
- On trunks of *Populus canescens* Sm. and *Ulmus procera* Salisb. [Rothamsted Experimental Station, Harpenden, Hertfordshire. 29 July 1955. Adults. EMM92:54-64]
- Egg-laying on trunk of *Aesculus* [Grounds of Rothamsted Experimental Station, Hertfordshire. 8 August 1937. Female. LondonHets]
- In suction traps [Rothamsted Experimental Station, Harpenden, Hertfordshire. 14 August 1953. Males. EMM92:54-64]
- In suction traps [Rothamsted Experimental Station, Harpenden, Hertfordshire. 14 August 1954. Males. EMM92:54-64]
- Beating oak branches [Penpoll Creek, Cornwall. 19 August 2002. CornwallHets]
- On trunks of ash [Between Colchester and the Blackwater Estuary, Essex. 25 August 1984. HSGN4:4]
- On standing dead beech trunk with the fungus *Coriolus versicolor* [Guiting Wood, Gloucestershire. 4 September 1994. Female. GloucsHets]
- On lime bark [Barnet, Hertfordshire. August 1885. LondonHets]
- Beneath bark of pine railing [Bentley Woods, Suffolk. SuffolkHets]
- On trunks of willow and apple [Blackheath, London. Females. EMM107:44]
- Crawling on a hosepipe in a garden [Blackheath, London. 1969. EMM107:44]
- On *Fagus* [Botanic Gardens, Edinburgh. EMM14:186-187]
- Beating Whitethorn hedge [Botus Fleming, Cornwall. TSBE1:51-84]
- On lichen-covered sloe, *Prunus spinosa* [Braunton Burrows, North Devon coast. First week of July 1959. EMM95:279]
- Beating dead trees [Carmarthen. Butler1923]
- On dead trees [Carmarthen, Carmarthenshire. Females. EMM48:187-189]
- On old, open-grown trees [Cotehele Estate, Calstock and St Dominick, Cornwall. July 2006. CornwallHets]
- On lichen-covered trees [Darenth. PSLENHS1903:66]
- On a rotten log [Epping Forest, Essex. July 1907. Male. LondonHets]
- On trunks of beeches [Exing, Near Newmarket, Suffolk. June 1915. Females. Ent49:67]

- Bred from the fungus *Stereum hirsutum* (on 30 May 1955) [Gerrard's Cross, Buckinghamshire. LondonHets]
- On *Quercus* [Harpenden, Hertfordshire. August 1934. LondonHets]
- On lime-bark [Hertfordshire. August 1880. Female. EMM17:234-235]
- Walking on a post [Hollington, Sussex. Female. EMM18:140]
- Beating old lichen-covered sloe bushes [Ireland. Butler1923]
- On lichen-covered trunks of many different trees. Concluded association to be with *Parmelia* [Lake District woods. Males and females. EMM92:54-64]
- On isolated lines of trees [Lincolnshire fens. HSGN4:3]
- In garden on apple and *Fraxinus*. Males nearly as common as females. Each male copulates several times with different females [Little Gaddesden, Hertfordshire. 1934-37. Males and females. LondonHets]
- On the trunks of trees and on old palings [London district. End of June. D&S1865]
- Cushions of western gorse [Long Mynd, Shropshire. 23 July to 8 August 1996. BJENH11:17-18]
- On trunks of various trees [Neighbourhood of Hurst Green, Sussex. August 1882. Female. EMM19:115-116]
- Beating lichen-covered trees [New Forest. July 1904. Female. ERJV17:67]
- In a suction trap [Rothamsted Experimental Station, Harpenden. 1953. Male. TRESL112:173-220]
- In a light trap [Rothamsted Experimental Station, Harpenden. 1949. Male. TRESL112:173-220]
- In a suction trap [Rothamsted Farm, Harpenden. 1954. Male. TRESL112:173-220]
- On the trunk of oak [Savernake Forest, Wiltshire. June 1960. Males and females. EMM107:44]
- On Rowan [Selworthy, Somerset. August 1928. EMM65:40-42]
- In Malaise traps at ground level near edge and in canopy of birch woodland [Silwood Park, Sunninghill, Berkshire. 1991. BJENH20:49-55]
- Sweeping in hotel garden [Southbourne, Hampshire. First half of July. Male and female. EMM58:231]
- Beating trees [Suffolk. SuffolkHets]
- From mixed ash wood [Westmorland. July 1954. TSBE15:117-134]
- From pinewood [Westmorland. 1953-1954. TSBE15:117-134]
- From several woodland sites. Seemed to be strongly associated with the presence of foliose lichens on the tree trunks, especially with *Hypogymnia physodes* (L.) Wats. (= *Parmelia physodes*) [Westmorland. 1953-1954. TSBE15:117-134]
- On the trunks of birch trees in birch woods [Westmorland. 1953-1954. TSBE15:117-134]

*Loricula exilis* (Fallén) (Microphysidae)

- In a marshy place on the shore [Lough Launaogh, Castlebar, West Mayo. 17 June 1909. IrelandHets]
- Suction sampling moss (*Polytrichastrum formosum*) under the cover of trees [The Holies, Streatley, North Wessex Downs, Berkshire. 25 June 2012. Nymphs reared to males and females. BJENH26:155-156]
- Suction sampling moss under the cover of trees in a wet, sheltered, lowland wood along the banks of a river [Moor Copse Reserve, near Pangbourne, Berkshire. 29 June 2010. Males. BJENH26:155-156]
- Suction sampling moss under trees along the edge of a farm track [Warburg Reserve, near Henley, Oxfordshire Chilterns. 26 June 2012. Females. BJENH26:155-156]
- Beating juniper on dry, exposed, upland chalk down [Beacon Hill, Aston Rowant, Oxfordshire Chilterns. 2 July 2010. Male. BJENH26:155-156]
- Several in *Formica rufa* nest [Churt, Surrey. 5 July 1994. EMM134:265-266]
- Suction sampling moss (*Polytrichastrum formosum*) under the cover of trees [The Holies, Streatley, North Wessex Downs, Berkshire. 8 July 2010. Males. BJENH26:155-156]
- In the debris from beating larch [Shirburn Hill, Chiltern Hills, Oxfordshire. 14 July 2016. Female and male. BJENH31:25-26]
- Marshy meadows [Shelton Abbey, Arklow, Wicklow. 17 July 1926. IrelandHets]
- In wet moss by stream flowing from lakes [Gap of Dunloe, North Kerry. 22 July 1927. IrelandHets]

From an ornamental juniper, *Juniperus chinensis* "Pfitzerana" [Broadway, Worcestershire. 30 July 1987. EMM125:49-51]  
 In the debris from beating juniper [Aston Rowant NNR, Chiltern Hills, Oxfordshire. 5 August 2016. Females. BJENH31:25-26]  
 Under lichens on rocks [Bray Head, Wicklow. 3 August 1927. IrelandHets]  
 In litter under juniper [Bald Hill, Oxfordshire. 31 August 1962. Female. EMM98:207]  
 Suction sampling moss in turf on dry, exposed, upland chalk down [Beacon Hill, Aston Rowant, Oxfordshire Chilterns. 29 August 2010. Female. BJENH26:155-156]  
 In litter under juniper [Coombe Hill, near Wendover, Buckinghamshire. 14 September 1963. Female. EMM99:161-162]  
 Observed feeding on *Trichoribates* mites in culture [Berkshire. Nymphs. Hem1:35]  
 Moss [Knock Barril, Pitlochry, Perthshire. EMM18:276]  
 Canal bank [Lucan, Dublin. August 1894. IrelandHets]  
 In moss [Merlin's Hill, Carmarthenshire. Females. EMM48:187-189]  
 Ballast pit [Near Killarney, North Kerry. July 1927. IrelandHets]

*Loricula inconspicua* (Douglas & Scott) (Microphysidae)

Moving across thyme patch on outcrop [Treryn Dinas, Cornwall. 7 May 1999. CornwallHets]  
 Crawling up a grass stem on sand hills [Ballyteige Dunes, west of Kilmore Quay, Wexford. 5 July 1932. Male. IrelandHets]  
 From litter under *Ononis repens* L. on dunes [Dawlish Warren, South Devon. 19 August 1993. EMM145:73-78]  
 Around the roots of *Erodium cicutarium* colonising small patches of loose sand, caused by rabbits, in consolidated dune grassland [Bryher, St Martin's (Tresco), Isles of Scilly. 15-29 August 1964 and 18-31 August 1965. Females. EMM102:67-69]  
 Observed making short flights among the scanty vegetation in the open [Bryher, St Martin's (Tresco), Isles of Scilly. 15-29 August 1964 and 18-31 August 1965. Males. EMM102:67-69]  
 In moss on sandhills [Camber, near Rye, Sussex. Female. Butler1923]  
 At roots of grasses on sandhills [Lowestoft. Male and female. Synopsis1875]  
 At the roots of grass in a sandy spot on the coast [Near Southwold Pier, Suffolk. EMM25:446-447]  
 At the roots of grass on sandhills [Southwold and Lowestoft. Saunders1892]  
 Under seaweed [Weymouth. Some years ago. Males. EMM8:60-63]

*Loricula pselaphiformis* Curtis (Microphysidae)

In the debris from beating pine [Chipping Norton, Oxfordshire. 31 May 2017. Males and females. BJENH31:25-26]  
 Sweeping a derelict field [Near Hitchcopse Pit, Dry Sandford, Watsonian Berkshire. 6 June 2008. Male. BJENH31:25-26]  
 Beating an old and more or less moribund juniper, beside a sheltered path skirting a wooded hill [Chalk hills at Cholsey, Berkshire. 13 June 1958. Male. EMM107:44]  
 From a mixed hedge in a lane [Near Marlborough, Wiltshire. 15 June 1960. Male. EMM107:44]  
 General sweeping in a shady lane [Westmeston, near Ditchling, Sussex. 21 June 1970. Male. EMM107:44]  
 Sweeping in field [Ranmore Common, Surrey. 28 June 1914. LondonHets]  
 Suction-sampling moss under trees [Warburg Reserve, near Henley, Oxfordshire. 28 June 2010. Female. BJENH31:25-26]  
 On a supper plate [Amersham, Buckinghamshire. 2 July 1951. Male. EMM90:250]  
 Beating old, stunted, lichen-covered junipers [Houghton Fell, VC64. 3 July 1953. Males and females. EMM89:294]  
 On the bark of a beech in a garden [Monk Soham House, Suffolk. 4 July 1908. Ent42:212]  
 In the debris from beating larch [Wooton, Oxfordshire. 5 July 2016. Female. BJENH31:25-26]  
 In the debris from beating larch [Shirburn Hill, Chiltern Hills, Oxfordshire. 14 July 2016. Female. BJENH31:25-26]  
 On *Aesculus* trunk [Harpenden, Hertfordshire. 8 August 1937. LondonHets]

- Beating a spruce hedge surrounding a garden [Kincraig, Inverness-shire. 4 September 1951. EMM88:71]  
 From a tree in a wood [Bellingham Road Valley of North Tyne, Northumberland. Early July 1918. EMM54:252-253]  
 Box trees [Box Hill, Surrey. D&S1865]  
 On *Buxus sempervirens* [Box Hill, Surrey. LondonHets]  
 On lichen-covered sloe, *Prunus spinosa* [Braunton Burrows, North Devon coast. First week of July 1959. EMM95:279]  
 On lichen-covered blackthorns [Brockenhurst, New Forest. Females. HantsHets]  
 Beating birch [Dumfriesshire. June. Females. EMM76:179-180]  
 On plum trees in a garden [East Malling, Kent. Early June. Adults of both sexes. EMM107:111]  
 In horizontal and vertical growth cracks of bark of plum tree, inserted into small crevices [East Malling, Kent. Eggs. EMM107:111]  
 On the trunks and main branches of plum trees in a garden, the majority in vertical cracks in the otherwise fairly smooth bark, with patchy overgrowth of the alga *Pleurococcus* but no lichen [East Malling, Kent. Mid-May 1971. Nymphs. EMM107:111]  
 On hawthorn [Fairmead, Epping Forest, Essex. Female. LondonHets]  
 On lichen-covered bark of larch and spruce [Grounds of Kinloch Castle, Isle of Rhum. 1960, 1961 and 1962. TSBE18:91-167]  
 On old, neglected, lichen-covered apple trees [Kiltariff Hall, Rathriland, Co. Down. Third week of July 1958. EMM94:247]  
 Under bark and on palings [Lee and Croydon. D&S1865]  
 On trunk of *Juglans* [Little Gaddesden, Hertfordshire. August 1936. LondonHets]  
 In old hedges [Near Darenth. D&S1865]  
 On trunks of various trees [Neighbourhood of Hurst Green, Sussex. August 1882. Female. EMM19:115-116]  
 On old hawthorn [North Hill, Minehead, Somerset. August 1929. EMM66:43-44]  
 Sweeping under oak trees [Quentin's Hill, Dumfriesshire. Both sexes. EMM76:179-180]  
 Beating in a wood [Quentin's Hill, Dumfriesshire. June. EMM70:162]  
 On birch trunks [Strathglass, Inverness-shire, VC96. Summer of 1869. Male and female. EMM7:45-53]  
 Beating faggots [Tuddenham, Suffolk. July 1903. SuffolkHets]  
 Beating yew tree in a yew wood [Westmorland. 1953-1954. Female. TSBE15:117-134]  
 From mixed ash wood [Westmorland. 1953-1954. TSBE15:117-134]  
 From pine wood [Westmorland. 1953-1954. TSBE15:117-134]  
 On the trunks of a birch trees in a birch wood [Westmorland. 1953-1954. TSBE15:117-134]  
 Under bark [Windsor Park. D&S1865]  
 On juniper scrub on exposed fells [Yorkshire. S&L1959]

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 as *M. bedwelli* EMM81:253-273  
 as *M. coleoptrata* EMM81:253-273  
 as *Myrm. bedwelli* EMM91:7-27  
 as *Myrm. coleoptrata* EMM91:7-27  
 as *Myrmedobia bedwelli* BJENH26:209-210, BJENH32:363-364, CornwallHets, EMM69:13-15, EMM81:253-273, EMM89:17, PTSLENHS1956:111-136, PTSLENHS1965:80, S&L1959, TSBE1:51-84  
 as *Myrmedobia bewelli* BJENH25:205-215

as *Myrmedobia coleoptrata* AntGuests, BJENH20:49-55, BJENH25:205-215, BJENH25:224-225, BJENH26:209-210, BJENH27:11-12, BJENH4:119-121, Butler1923, CornwallHets, D&S1865, EG20:125-135, EMM11:138, EMM12:249-250, EMM28:8, EMM4:30-33, EMM69:13-15, EMM8:60-63, EMM87:274, EMM99:161-162, ERJV14:37-40, ERJV25:1-8, ERJV35:103-104, HantsHets, HN8:12, HN9:2, HSGN12:8, HSGN14:7, HSGN4:A10, HSGN8:9, LondonHets, S&L1959, Saunders1892, Synopsis1875, TSBE1:51-84

*Loricula distinguenda* (Reuter) (Microphysidae)

as *Loricula distinguenda* BJENH26:209-210, BJENH28:5-15, BJENH31:25-26, Hem1:31, Hem1:48, Hem1:49, Hem1:7, Hem1:97, Hem2:16, Hem2:42, Hem3:43, Hem3:56, Hem3:6, Hem4:105, Hem4:135, Hem4:144, Hem4:30, Hem4:39, Hem4:7, Hem4:73, Hem5:106, Hem5:115, Hem5:139, Hem5:162, Hem5:195, Hem5:29, Hem5:59, Hem5:6, Hem6:95  
as *M. distinguenda* EMM81:253-273  
as *Myrm. distinguenda* EMM91:7-27  
as *Myrmedobia distinguenda* BJENH10:176, BJENH11:17-18, BJENH20:49-55, Butler1923, CornwallHets, EMM103:220, EMM107:169, EMM28:51-52, EMM28:8, EMM33:236, EMM60:39, EMM70:162, EMM99:161-162, HantsHets, HSGN10:12, HSGN11:7, HSGN14:7, HSGN5:7, LondonHets, PTSLENHS1962:123-183, S&L1959, Saunders1892, TPSLENHS1932-33:89-90, TSBE1:51-84, TSBE11:245-280

*Loricula elegantula* (Baerensprung) (Microphysidae)

as *L. elegantulus* EMM81:253-273, EMM82:94-95  
as *Lor. elegantula* EMM91:7-27  
as *Loricula elegantula* BJENH11:17-18, BJENH18:233-252, BJENH20:49-55, BJENH28:5-15, BJENH31:25-26, CornwallHets, EG20:125-135, EMM107:44, EMM89:294, EMM92:54-64, EMM95:279, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:97, Hem2:16, Hem2:22, Hem2:34, Hem2:42, Hem3:26, Hem3:27, Hem3:43, Hem3:6, Hem3:77, Hem3:86, Hem4:105, Hem4:135, Hem4:148, Hem4:30, Hem4:39, Hem4:7, Hem4:73, Hem4:88, Hem5:106, Hem5:123, Hem5:136, Hem5:140, Hem5:162, Hem5:18, Hem5:189, Hem5:195, Hem5:206, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem5:72, Hem5:95, Hem6:253, Hem6:269, Hem6:277, Hem6:95, HN17/18:25, HN7:15, HSGN1:15, HSGN10:11, HSGN11:6, HSGN12:12, HSGN14:7, HSGN4:3, HSGN4:4, HSGN6:5, JSBE5:179-186, LondonHets, PTSLENHS1962:123-183, PTSLENHS1965:59-60, S&L1959, TRESL112:173-220, TSBE11:245-280, TSBE15:117-134  
as *Microphysa elegantula* APSLENHS1886:56, Butler1923, EMM14:186-187, EMM17:234-235, EMM18:140, EMM19:115-116, EMM23:116, EMM48:187-189, EMM54:132-136, EMM58:231, EMM65:40-42, EMM69:234-245, Ent37:26, Ent47:146-147, Ent49:67, HantsHets, IrelandHets, JSBE1:165-166, PSLENHS1903:66, Saunders1892, SuffolkHets, Synopsis1875, TSBE1:51-84  
as *Mycrophysa elegantula* ERJV17:67  
as *Zygonotus elegantulus* D&S1865, EMM4:30-33

*Loricula exilis* (Fallén) (Microphysidae)

as *Loricula exilis* BJENH26:209-210, BJENH31:25-26, Hem1:31, Hem1:35, Hem1:48, Hem1:49, Hem1:7, Hem1:97, Hem2:1, Hem2:16, Hem3:106, Hem3:26, Hem3:27, Hem3:43, Hem3:6, Hem4:105, Hem4:135, Hem4:30, Hem4:42, Hem4:7, Hem4:88, Hem5:106, Hem5:115, Hem5:136, Hem5:151, Hem5:162, Hem5:195, Hem5:206, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem6:277, Hem6:95  
as *M. tenella* EMM81:253-273, EMM82:94-95  
as *Myrm. tenella* EMM91:7-27  
as *Myrmedobia exilis* BJENH25:205-215, BJENH25:224-225, BJENH26:155-156, CornwallHets, Hem2:46, HN11:13, HN17/18:25, HSGN12:12, HSGN14:7, HSGN4:A10  
as *Myrmedobia tenella* BJENH25:205-215, BJENH26:155-156, Butler1923, EG20:125-135, EG60:37-71, EMM12:249-250, EMM125:49-51, EMM134:265-266, EMM18:276, EMM28:51-52, EMM28:8, EMM48:187-189, EMM98:207, EMM99:161-162, Ent10:9-15,

HantsHets, HSGN1:15, IrelandHets, LondonHets, PTSLENHS1962:123-183, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TSBE11:245-280

*Loricula inconspicua* (Douglas & Scott) (Microphysidae)

- as *Loricula inconspicua* BJENH26:209-210, Hem1:48, Hem1:49, Hem1:7, Hem1:97, Hem2:16, Hem3:26, Hem3:27, Hem3:44, Hem3:6, Hem4:7, Hem4:73, Hem4:88, Hem5:106, Hem5:115, Hem5:123, Hem5:29, Hem5:43, Hem5:6, Hem6:96
- as *M. inconspicua* EMM81:253-273
- as *Myrm. inconspicua* EMM91:7-27
- as *Myrmedobia inconspicua* BJENH2:53-54, Butler1923, CornwallHets, EMM102:67-69, EMM145:73-78, EMM25:446-447, EMM33:217-220, EMM44:32-34, EMM69:13-15, EMM69:234-245, HantsHets, HN6:13, HN6:2, HSGN14:7, HSGN8:9, IrelandHets, PRESL(A)23:1-8, PTSLENHS1956:111-136, S&L1959, Saunders1892, SuffolkHets, Synopsis1875, TSBE1:51-84
- as *Pseudophleps inconspicuus* EMM8:60-63

*Loricula pselaphiformis* Curtis (Microphysidae)

- as *L. pselaphiformis* EMM81:253-273, EMM82:94-95
- as *Lor. pselaphiformis* EMM91:7-27
- as *Loricula pselaphiformis* BJENH31:25-26, EG20:125-135, EMM107:111, EMM107:44, EMM89:294, EMM90:250, EMM93:49-51, EMM94:247, EMM95:279, GloucsHets, Hem1:48, Hem1:49, Hem1:7, Hem1:97, Hem2:34, Hem2:44, Hem3:26, Hem3:27, Hem3:44, Hem3:6, Hem3:77, Hem4:105, Hem4:135, Hem4:148, Hem4:30, Hem4:7, Hem4:73, Hem4:88, Hem5:106, Hem5:123, Hem5:136, Hem5:140, Hem5:143, Hem5:156, Hem5:162, Hem5:18, Hem5:195, Hem5:206, Hem5:29, Hem5:43, Hem5:59, Hem5:6, Hem5:72, Hem5:95, Hem6:269, Hem6:96, HN17/18:25, HN7:15, HSGN1:15, HSGN10:11, HSGN11:6, HSGN12:12, HSGN14:7, HSGN4:3, HSGN6:5, LondonHets, PTSLENHS1962:123-183, PTSLENHS1965:59-60, PTSLENHS1965:80, S&L1959, TSBE11:245-280, TSBE15:117-134, TSBE18:91-167
- as *Microphysa pselaphiformis* Butler1923, EMM14:186-187, EMM15:255-256, EMM19:115-116, EMM54:252-253, EMM66:43-44, EMM69:234-245, EMM70:162, EMM76:179-180, EMM88:71, Ent42:212, HantsHets, Saunders1892, SuffolkHets, Synopsis1875
- as *Zygonotus pselaphiformis* D&S1865, EMM3:118, EMM4:30-33, EMM7:45-53

*Loricula ruficeps* (Reuter) (Microphysidae)

- as *Loricula ruficeps* BJENH25:205-215, Hem1:48, Hem1:49, Hem1:7, Hem2:2, Hem3:6, Hem4:53, Hem4:57, Hem4:7, Hem5:106, Hem5:123, Hem5:6, Hem6:96, HSGN6:5

### Tabulated summaries

On the following pages are summaries of the results of this review for each of the species in scope. The common name is that used in the literature consulted; or has been created from aspects of the species natural history. The first report is the first mention of the species in the literature consulted, starting at D&S1865. The ambiguities, if they occur, refer to the ambiguous species names of Hem2:4-8, Hem3:15-17, Hem5:14-15 and Hem5:114-118. The geographical distribution is based upon records published elsewhere in this journal; and is shown as a map from the latest interim release of the Vice-county Distribution and Atlas (<https://sites.google.com/site/BritishHetBugAtlas>). The presence of a vice-county record is shown with a black fill, and the absence with a white fill. The seasonal distribution is based on the heximonth records listed above and is shown as a calendar. The presence of an adult record is shown with a black fill, and the absence with a white fill, with a figure representing the number of distinct records in the above list. The existence of nymph and egg records is shown by the letters 'N' and 'E', respectively, without a figure. Heximonth records are assumed to be adult unless explicitly stated otherwise. The other details is a narrative constructed from the detailed records listed above. Aspects of the narrative which include records for nymphs or eggs are marked '(n)' or '(e)', respectively.

Those that include winter records (which I define as 1st January to 31st March) are marked '(w)'. Habitus photographs of the species are included, where available.

***Loricula coleoptrata* (Fallén) (Microphysidae)**

*Common name.* The Beetle Minutebug.

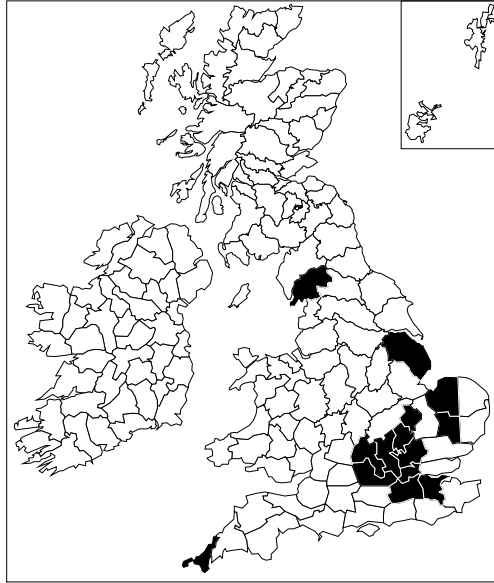
*First report.* D&S1865 as *Myrmedobia coleoptrata*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from cliffs, woodland, hedge bank, grassy bank, cleared part of forest, and rock outcrop; specifically from moss (n), under/at roots of thyme, stacks of mown plant material, leaf litter, and under beech bark. It has been taken sweeping, suction sampling (n), in nests and in company of ants, and in a Malaise trap. In culture, both nymphs and adults seen feeding on *Trichoribates* mites.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						N
June		N	N		2	1
July	1	2				
August			1			
September						
October	1					
November						
December						



***Loricula distinguenda* (Reuter) (Microphysidae)**

*Common name.* The Round-shouldered Minutebug.

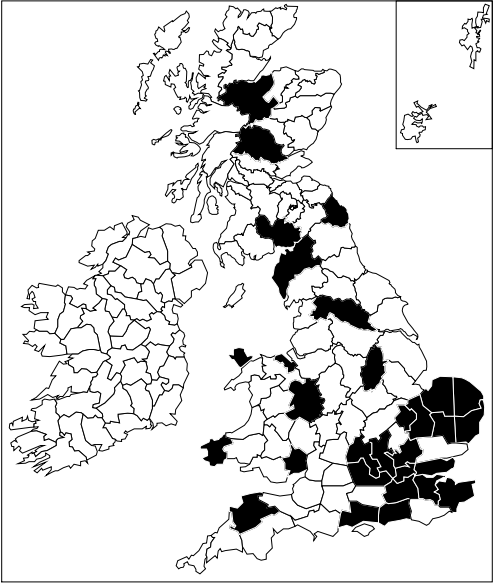
*First report.* EMM28:8 as *Myrmedobia distinguenda*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from birch woodland, and edge of a mixed wood; specifically from rhododendron, lichen-covered larches, under cushions of western gorse, moss, lichen-covered pine bark, dead needles under juniper, and thatch. It has been taken beating, sweeping, suction sampling and fogging oaks with insecticide (n).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June			1		1	
July		2	1	2		
August	1		1			2
September						
October						
November						
December						

No habitus images are available.

***Loricula elegantula* (Baerensprung) (Microphysidae)**

*Common name.* The Elegant Minutebug.

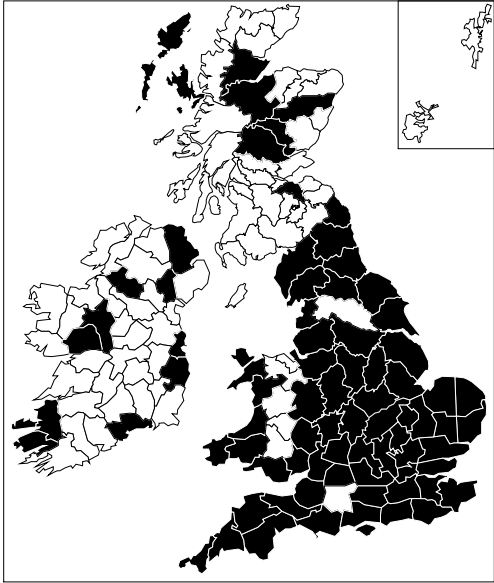
*First report.* D&S1865 as *Zygonotus elegantulus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from woods, pasture, garden, and isolated trees; specifically from beating Douglas Fir, larch, pine, lichen-covered blackthorn, oak, lichen-covered sloe, and whitethorn hedge; trunks of beech, oak, birch, ash, *Populus canescens* (n), *Ulmus procera* (n), willow, and apple; bark of horse chestnut, and lime; *Ulex gallii* cushion, elder, moss (n), apple, and rowan. It has been taken sweeping, in a light trap, in a suction trap, in a Malaise trap, suction sampling (n), tree brushing, crawling on a hosepipe in a garden, walking on a post, and from dead trees, logs, old palings, and under bark of pine railing. Seen to lay eggs on trunk of *Aesculus*. Bred from the fungus *Stereum hirsutum*. A study found adults and nymphs on lichen and moss-covered dry stone walls at 1000 ft. It was much more abundant on the lichens (*Parmelia* and *Cladonia*) than in the mosses (*Hypnum* and *Rhacomitrium*). When the bugs were placed in a Petri dish with patches of all these plants, after 24 hours both adults and nymphs were found amongst the lichens.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June		1 N				1
July	2 N	5	6	4	4 N	2
August	2	2	3	1	1	
September	2					
October						
November						
December						



***Loricula exilis* (Fallén) (Microphysidae)**

*Common name.* The Square-shouldered Minutebug.

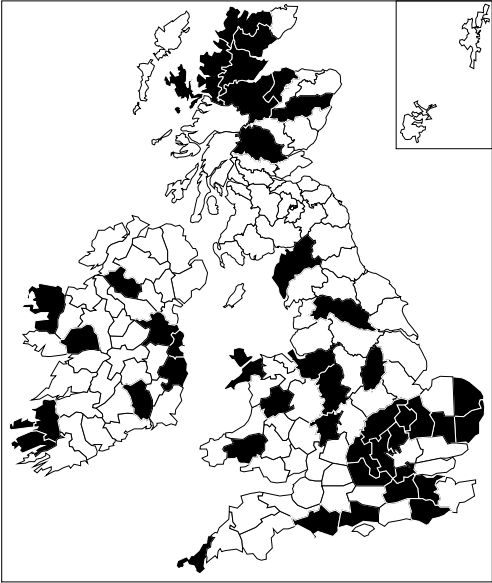
*First report.* EMM12:249-250 as *Myrmedobia tenella*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from ballast pit, chalk down, canal bank, marshy place on the shore, by stream flowing from lakes, marshy meadows, lowland wood, and under trees along the edge of a farm track; specifically from juniper, litter under juniper, moss (n), and larch. It has been taken beating, suction sampling (n), under lichens on rocks, and in *Formica rufa* nest. Seen feeding on *Trichoribates* mites in culture (n).



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June				1	N	2
July	2	1	1	1	1	1
August	2	1				2
September			1			
October						
November						
December						



***Loricula inconspicua* (Douglas & Scott) (Microphysidae)**

*Common name.* The Dune Minutebug.

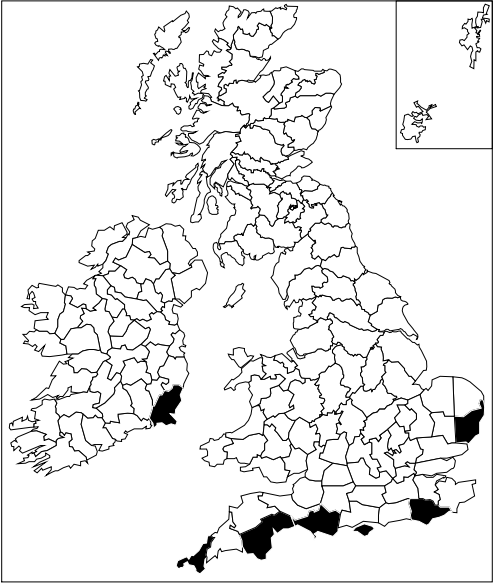
*First report.* EMM8:60-63 as *Pseudophleps inconspicuus*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from sandhills; specifically from roots of *Erodium cicularium*, roots of grasses, litter under *Ononis repens*, moss, and under seaweed. Seen moving across thyme patch on outcrop, crawling up a grass stem, and making short flights among scanty vegetation.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May		1				
June						
July	1					
August				1		
September						
October						
November						
December						

No habitus images are available.

*Loricula pselaphiformis* Curtis (Microphysidae)

*Common name.* The Dingy Minutebug.

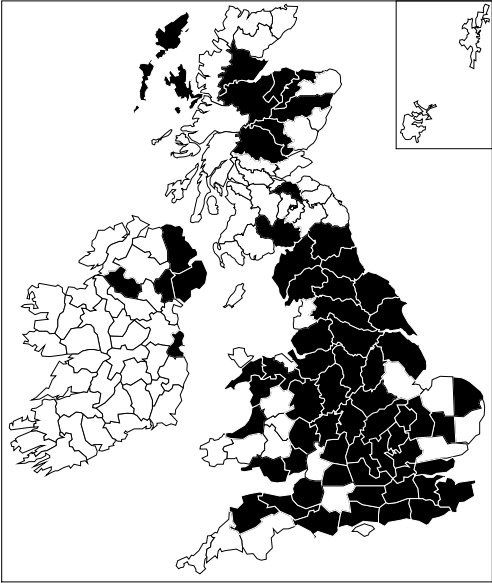
*First report.* D&S1865 as *Zygonotus pselaphiformis*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* Reported from garden, woods, hedges, juniper scrub on exposed fells, shady lane, and derelict field; specifically from hawthorn, apple trees, plum trees, junipers, box trees, yew, birch, spruce, larch, pine, faggots, *Aesculus*, moss, blackthorns, sloe, beech, and *Juglans*. It has been taken sweeping, beating, suction sampling, under bark, on lichen-covered bark, on palings, on tree trunks, and on a supper plate. Nymphs seen on the trunks and main branches of plum trees in a garden, the majority in vertical cracks in the otherwise fairly smooth bark, with patchy overgrowth of the alga *Pleurococcus* but no lichen. Eggs found in horizontal and vertical growth cracks of bark of plum tree, inserted into small crevices.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						1
June		1	4	1	1	2
July	5		1		1	
August		1				
September	1					
October						
November						
December						



***Loricula ruficeps* (Reuter) (Microphysidae)**

*Common name.* The Devon Minutebug.

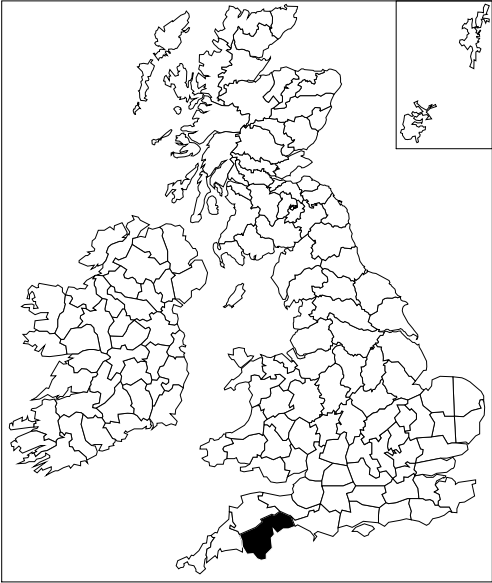
*First report.* Hem4:53 as *Loricula ruficeps*.

*Ambiguities.* None reported.

*Geographical distribution.* See vice-county map opposite.

*Seasonal distribution.* See heximonth calendar opposite.

*Other details.* None reported.



	1-5	6-10	11-15	16-20	21-25	26-
January						
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

No habitus images are available.

**NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA**

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I recently sent an Excel spreadsheet containing 763 records of Hemiptera-Heteroptera to Rob Ryan, which he checked against the Distribution and Atlas (Ryan, 2019). The data set was found to contain 45 new vice-county records, which I list below.

*Aneurus avenius* (Dufour) (Aradidae)

VC55: 24/11/21, SK879071, Rutland Water Site 4 Visitor Centre, under bark near visitor centre in woodland.

*Tritomegas sexmaculatus* (Rambur) (Cydnidae)

VC18: 23/06/21, TQ5882, Little Belhus Country Park.

*Corizus hyoscyami* (Linnaeus) (Rhopalidae)

VC82: 23/08/21, NT5485, North Berwick dunes.

*Scolopostethus puberulus* Horváth (Lygaeidae)

VC26: 26/04/21, TM0278, LOHP - Hinderclay Fen; 14/06/21, TM0278, LOHP - Hinderclay Fen, pitfall trap.

*Trapezonotus dispar* Stål (Lygaeidae)

VC28: 12/03/21, TF834316, Syderstone Common - heath on hill, pitfall trap, female.

*Acalypta parvula* (Fallén) (Tingidae)

VC97: 17/08/21, NN2987, Glen Roy.

*Physatocheila confinis* Horváth (Tingidae)

VC26: 07/06/21, TM0278, LOHP - Hinderclay Fen.

*Stephanitis takeyai* Drake & Maa (Tingidae)

VC28: 10/08/21, TF7014, West Bilney, in a garden, off *Pieris*. (Originally found at the site by Martin Collier in early August 2021.)

*Nabis flavomarginatus* Scholtz (Nabidae)

VC78: 24/08/21, NT1041, The Mount.

*Nabis limbatus* Dahlbom (Nabidae)

VC78: 24/08/21, NT0941 & NT1041, The Mount.

*Anthocoris butleri* Le Quesne (Anthocoridae)

VC27: 19/09/21, TG235090, The Bishop's Garden, Bishopgate, Norwich, several tapped off low-cut box hedging.

*Anthocoris nemorum* (Linnaeus) (Anthocoridae)

VC78: 24/08/21, NT0941 & NT1041, The Mount.

VC82: 23/08/21, NT5485, North Berwick dunes.

*Cardiastethus fasciiventris* (Garbiglietti) (Anthocoridae)

VC55: 15/12/21, SK8808, Rutland Water - Cherry Wood.

*Orius horvathi* (Reuter) (Anthocoridae)

VC27: 19/09/21, TG235090, The Bishop's Garden, Bishopgate, Norwich, swept.

*Orius niger* (Wolff) (Anthocoridae)

VC55: 15/12/21, SK885080, Rutland Water - Lagoon 3, in *Deschampsia* tussock on edge of trackway between pools.

*Agnocoris reclairi* (Wagner) (Miridae)

VC55: 15/12/21, SK8808, Rutland Water - Cherry Wood.

*Apolygus spinolae* (Meyer-Dür) (Miridae)

VC97: 20/08/21, NN291838, Glen Roy, swept.

*Blepharidopterus angulatus* (Fallén) (Miridae)

VC97: 16/08/21, NN291837, Glen Roy; 17/08/21, NN3088, Glen Roy; 18/08/21, NM6895, Mallaig.

*Bryocoris pteridis* (Fallén) (Miridae)

VC26: 21/07/21, TM0278, LOHP - Hinderclay Fen.

- Charagochilus gyllenhalii* (Fallén) (Miridae)  
VC83: 22/08/21, NT1959, Pentland Hills.
- Closterotomus trivialis* (A. Costa) (Miridae)  
VC18: 23/06/21, TQ5882, Little Belhus Country Park.
- Cyrtorhinus caricis* (Fallén) (Miridae)  
VC97: 17/08/21, NN3088, Glen Roy.
- Dicyphus escalerae* Lindberg (Miridae)  
VC96: 23/08/21, NN5578, National Museum of Flight, several on *Antirrhinum* in Museum grounds.
- Liocoris tripustulatus* (Fabricius) (Miridae)  
VC78: 24/08/21, NT0941, The Mount.  
VC97: 17/08/21, NN3088, Glen Roy.
- Lygocoris pabulinus* (Linnaeus) (Miridae)  
VC78: 24/08/21, NT0941, The Mount.
- Lygus rugulipennis* Poppius (Miridae)  
VC97: 17/08/21, NN3088, Glen Roy.
- Monalocoris filicis* (Linnaeus) (Miridae)  
VC78: 24/08/21, NT0941, The Mount.
- Pachytomella parallela* (Meyer-Dür) (Miridae)  
VC97: 17/08/21, NN3088, Glen Roy.
- Pilophorus clavatus* (Linnaeus) (Miridae)  
VC28: 26/07/21, TF7317, Gayton Thorpe Common.  
VC97: 18/08/21, NM6895, Mallaig.
- Plagiognathus arbustorum* (Fabricius) (Miridae)  
VC78: 24/08/21, NT0941, The Mount.
- Plagiognathus chrysanthemi* (Wolff) (Miridae)  
VC83: 22/08/21, NT1959, Pentland Hills.  
VC97: 18/08/21, NM6895, Mallaig; 20/08/21, NN291838, Glen Roy, swept.
- Psallus betuleti* (Fallén) (Miridae)  
VC26: 07/06/21, TM0278, LOHP - Hinderclay Fen.
- Psallus falleni* Reuter (Miridae)  
VC97: 14/08/21, NN291837, Glen Roy, male.
- Psallus haematodes* (Gmelin) (Miridae)  
VC78: 24/08/21, NT0941, The Mount.
- Stenodema calcarata* (Fallén) (Miridae)  
VC97: 18/08/21, NM6895, Mallaig.
- Stenodema holsata* (Fabricius) (Miridae)  
VC78: 24/08/21, NT0941 & NT1041, The Mount.
- Sthenarus rotermundi* (Scholtz) (Miridae)  
VC28: 24/06/21 & 02/08/21, TF6023, King's Lynn, scrub habitat.
- Teratocoris antennatus* (Boheman) (Miridae)  
VC26: 21/07/21, TM0278, LOHP - Hinderclay Fen, male & female.
- Teratocoris saundersi* Douglas & Scott (Miridae)  
VC97: 17/08/21, NN3088, Glen Roy.
- Chartoscirta cocksii* (Curtis) (Saldidae)  
VC97: 15/08/21, NN296853, Glen Roy viewpoint area.
- Macrosaldula scotica* (Curtis) (Saldidae)  
VC97: 17/08/21, NN3088, Glen Roy, at edge of fast flowing stream.

## Reference

- Ryan, R. P. 2019. The vice-county distribution and atlas of the Hemiptera-Heteroptera of the British Isles. *Hemipterist* **6**: 1-210.

EDITOR COMMENT. In the Atlas, *Physatocheila confinis* is represented by *P. dumetorum*.

## **SOME LIGHT TRAP RECORDS OF HEMIPTERA-HETEROPTERA FROM THE ROTHAMSTED INSECT SURVEY**

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### **Introduction**

There are two reasons in particular why light trap records are important in the Heteroptera. Firstly, as it is a different method from conventional sweeping, beating, hand searching, etc., it is likely to pick up a different range of species, and some otherwise infrequently encountered species may turn up. This can help create a more complete local list. Secondly, the capture of some species, but not others, by a particular method may inform or pose questions about their natural history. It is interesting that not only are some species more or less frequently found at light compared with other methods, but also for many bugs males are more commonly taken than females.

In recent months I have been receiving material from the light traps of the Rothamsted Insect Survey (<https://insectsurvey.com>), and below I list the records of Hemiptera-Heteroptera identified from it. These include thirteen records new to the Vice-county Distribution and Atlas (Ryan, 2019a), which are marked as such in the list.

### **Methods**

The Rothamsted Insect Survey (RIS) light-trap network has operated since 1968 and the trapping methodology has remained standardised throughout. The 200W clear tungsten bulb is 1.2 m above the ground and the trap has a dark lid to avoid attracting higher-flying species. The traps run nightly and are fitted with astronomical timers that shift in time as the season changes, switching on at dusk and off at dawn throughout the year.

Dry material from traps is sometimes difficult to identify, suffering from the three 'F's – fragmented, faded and female. The loss of appendages can make the use of identification keys difficult, so a diagnosis of the material often requires recognition of the species directly from previous experience, remembering that anything straw-coloured might in life have been green. My personal reference collection covers about two thirds of the British Isles list, and can be useful particularly where it is complete for the relevant genus. In some cases, male genitalia are required to confirm identity, which is obviously not possible with females. Consequently, there are some specimens to which I have not been able to assign specific names.

Representative specimens for the records have been retained in a carded collection. The material was left in a small plastic box for an hour or two on tissue paper dampened with distilled malt vinegar (bought very cheaply from Sainsbury's), in order to soften it and prevent further fragmentation when pressed onto the card. Where necessary, male genitalia were extracted after steeping the genital capsule in the vinegar for several hours.

Carding was used, instead of pointing or pinning, to protect the specimens as well as possible from further damage, and to allow the various bits to be collected together. No effort was made to arrange the specimens neatly as, in my experience, dried material of most species of Heteroptera (especially the Miridae) cannot be relaxed sufficiently for this, without the risk of appendages detaching as they are moved. The card was spread liberally with adhesive and specimens placed on their sides, where possible, to allow as many parts as possible to be visible. The cards were cut from Xerox Colotech+ gloss coated paper/card (which I use for making printed copies of this journal for deposition in libraries), 210gsm for the smaller mounts and 280gsm for the larger. The gloss coating prevents the adhesive soaking into the card, which may cause the card to warp and reduces the time available to assemble specimens on the mount. The adhesive used was polyvinyl alcohol, 'clear PVA', (Ryan, 2020), which is easily reversed, if necessary for future examination. The carded specimens are labelled with a code for each site and date range in the form 'Rnnn' (repeated in the record list below) and stored in small,

shallow plastic boxes lined with Plastazote (Ryan, 2018), instead of cabinet trays or conventional storage boxes, making the collection more mobile and easier to examine under the microscope.

**Records from Starcross, South Devon (VC3), SX972821**

10-31 December 2018 [R030]

*Pinalitus cervinus* (Herrich-Schaeffer) (Miridae) (1 male)

1-13 January 2019 [R031]

*Pinalitus cervinus* (Herrich-Schaeffer) (Miridae) (1 female)

18-19 March 2019 [R033]

*Anthocoris nemorum* (Linnaeus) (Anthocoridae) (1 female)

20-31 March 2019 [R034]

*Physatocheila dumetorum* (Herrich-Schaeffer) (Tingidae) (1 male)

18 April – 1 May 2019 [R035]

*Acanthosoma haemorrhoidale* (Linnaeus) (Acanthosomatidae) (1 male)

*Orius vicinus/latiollis* (Anthocoridae) (1 female)

18 May -19 June 2019 [R036]

*Pinalitus cervinus* (Herrich-Schaeffer) (Miridae) (2 males)

20 June -11 July 2019 [R037]

*Loricula elegantula* (Baerensprung) (Microphysidae) (1 male)

*Dicyphus errans* (Wolff) (Miridae) (1 male)

*Lygocoris pabulinus* (Linnaeus) (Miridae) (1 male)

*Stenotus binotatus* (Fabricius) (Miridae) (9 males)

11-28 July 2019 [R038]

*Nabis ferus* (Linnaeus) (Nabidae) (1 male, 1 female)

*Apolygus spinolae* (Meyer-Dür) (Miridae) (1 male)

*Compsidolon salicellum* (Herrich-Schaeffer) (Miridae) (1 male) [new VC record]

*Lygus rugulipennis* Poppius (Miridae) (4 males, 1 female)

*Macrolophus pygmaeus* (Rambur) (Miridae) (1 male) [new VC record]

*Orthotylus viridinervis* (Kirschbaum) (Miridae) (1 male) [new VC record]

*Phytocoris longipennis* Flor (Miridae) (1 male) [new VC record]

*Pinalitus cervinus* (Herrich-Schaeffer) (Miridae) (1 male)

*Plagiognathus chrysanthemi* (Wolff) (Miridae) (1 female) [new VC record]

*Stenotus binotatus* (Fabricius) (Miridae) (5 males)

29 July – 18 August 2019 [R039]

*Apolygus spinolae* (Meyer-Dür) (Miridae) (1 female)

*Lygus rugulipennis* Poppius (Miridae) (1 male)

*Phytocoris varipes* Boheman (Miridae) (1 male)

19-21 August 2019 [R040]

*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (2 males)

**Records from Jealott's Hill, Berkshire (VC22), SU876738**

18-22 April 2019 [R045]

*Harpocera thoracica* (Fallén) (Miridae) (1 male)

10-12 May 2019 [R046]

*Harpocera thoracica* (Fallén) (Miridae) (1 male)

24-29 May 2019 [R047]

*Charagochilus gyllenhalii* (Fallén) (Miridae) (2 males)

31 May – 5 June 2019 [R048]

*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (1 male, 1 female)

*Capsus ater* (Linnaeus) (Miridae) (1 female)

*Phoenicocoris obscurellus* (Fallén) (Miridae) (2 males)

7-18 June 2019 [R050]

*Deraeocoris lutescens* (Schilling) (Miridae) (1 female)

19-30 June 2019 [R051]

- Macrotylus solitarius* (Meyer-Dür) (Miridae) (1 female)
- Orthops kalmii* (Linnaeus) (Miridae) (2 males)
- Stenotus binotatus* (Fabricius) (Miridae) (3 males)

1-4 July 2019 [R052]

- Macrotylus solitarius* (Meyer-Dür) (Miridae) (2 males)
- Orthops kalmii* (Linnaeus) (Miridae) (1 male)
- Stenotus binotatus* (Fabricius) (Miridae) (1 male)

5-18 July 2019 [R053]

- Temnostethus gracilis* Horváth (Anthocoridae) (1 male)
- Macrotylus solitarius* (Meyer-Dür) (Miridae) (1 male)
- Miridius quadrivirgatus* (A Costa) (Miridae) (1 female)
- Orthops basalis* (A Costa) (Miridae) (1 male)
- Orthops kalmii* (Linnaeus) (Miridae) (1 male)
- Orthotylus bilineatus* (Fallén) (Miridae) (1 male)
- Phytocoris varipes* Boheman (Miridae) (1 male)
- Polymerus unifasciatus* (Fabricius) (Miridae) (1 male)
- Stenotus binotatus* (Fabricius) (Miridae) (2 males)

18-23 July 2019 [R054]

- Pentatoma rufipes* (Linnaeus) (Pentatomidae) (2 males, 1 female)
- Nabis ferus* (Linnaeus) (Nabidae) (1 female)
- Macrotylus horvathi* (Reuter) (Miridae) (3 males) [new VC record]
- Miridius quadrivirgatus* (A Costa) (Miridae) (1 male)
- Orthops kalmii* (Linnaeus) (Miridae) (2 males)
- Phytocoris varipes* Boheman (Miridae) (5 males)
- Pinalitus cervinus* (Herrich-Schaeffer) (Miridae) (3 males)
- Stenodema calcarata* (Fallén) (Miridae) (1 male)
- Trigonotylus caelestialium* (Kirkaldy) (Miridae) (1 male)
- Trigonotylus ruficornis* (Geoffroy) (Miridae) (2 females)

24-25 July 2019 [R055]

- Pentatoma rufipes* (Linnaeus) (Pentatomidae) (2 males, 1 female)
- Nabis ferus* (Linnaeus) (Nabidae) (1 female)
- Orius vicinus/latiollis* (Anthocoridae) (1 female)
- Charagochilus gyllenhalii* (Fallén) (Miridae) (1 male)
- Macrotylus horvathi* (Reuter) (Miridae) (1 male) [new VC record]
- Miridius quadrivirgatus* (A Costa) (Miridae) (2 males)
- Oncotylus viridiflavus* (Goeze) (Miridae) (1 male)
- Pachytomella parallela* (Meyer-Dür) (Miridae) (1 male)
- Phytocoris varipes* Boheman (Miridae) (17 males)
- Pinalitus cervinus* (Herrich-Schaeffer) (Miridae) (1 male)
- Trigonotylus caelestialium* (Kirkaldy) (Miridae) (1 male, 1 female)

26 July – 5 August 2019 [R056]

- Pentatoma rufipes* (Linnaeus) (Pentatomidae) (1 male)
- Nabis ferus* (Linnaeus) (Nabidae) (1 male)
- Oncotylus viridiflavus* (Goeze) (Miridae) (2 males)
- Phytocoris varipes* Boheman (Miridae) (35 males)

29-31 July 2019 [R057]

- Orius vicinus/latiollis* (Anthocoridae) (1 male)
- Compsidolon salicellum* (Herrich-Schaeffer) (Miridae) (1 female)
- Macrolophus pygmaeus* (Rambur) (Miridae) (1 male) New VC record
- Oncotylus viridiflavus* (Goeze) (Miridae) (1 male)
- Phytocoris varipes* Boheman (Miridae) (12 males)
- Trigonotylus caelestialium* (Kirkaldy) (Miridae) (1 female)

6-8 August 2019 [R058]

- Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (1 female)

- Pentatoma rufipes* (Linnaeus) (Pentatomidae) (4 males)  
*Phytocoris varipes* Boheman (Miridae) (9 males)  
*Stenodema calcarata* (Fallén) (Miridae) (1 female)  
*Trigonotylus caelestialium* (Kirkaldy) (Miridae) (1 male)  
 9-16 August 2019 [R059]  
*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (2 males)  
*Orius vicinus/latiollis* (Anthocoridae) (1 male)  
*Adelphocoris lineolatus* (Goeze) (Miridae) (1 male)  
*Malacocoris chlorizans* (Panzer) (Miridae) (1 male)  
*Phytocoris varipes* Boheman (Miridae) (2 males)  
 11-15 September 2019 [R060]  
*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (1 male)  
 22 August 2019 [R061]  
*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (3 males)  
*Phytocoris varipes* Boheman (Miridae) (1 male)  
 28 August – 8 September 2019 [R062]  
*Phytocoris varipes* Boheman (Miridae) (1 male)

**Records from Colwyn Bay, Denbighshire (VC50), SH836789**

- 18 February – 24 April 2019 [R027]  
*Orius vicinus/latiollis* (Anthocoridae) (1 female)  
 1 May 2019 [R028]  
*Phoenicocoris obscurellus* (Fallén) (Miridae) (1 male) [new VC record]  
 18-30 June 2019 [R029]  
*Phoenicocoris obscurellus* (Fallén) (Miridae) (4 males)  
*Phylus melanocephalus* (Linnaeus) (Miridae) (1 male)  
*Psallus confusus/mollis* (Miridae) (1 female)  
 1 September 2021 [R006]  
*Phytocoris pini* Kirschbaum (Miridae) (1 male)  
 2 September 2021 [R007]  
*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (1 male)  
 3 September 2021 [R008]  
*Blepharidopterus angulatus* (Fallén) (Miridae) (2 males)  
 4 September 2021 [R009]  
*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (2 males, 1 female)  
*Phytocoris tiliae* (Fabricius) (Miridae) (1 male)  
 7 September 2021 [R010]  
*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (1 male)  
 9 September 2021 [R011]  
*Lygocoris pabulinus* (Linnaeus) (Miridae) (1 male)  
*Phytocoris longipennis* Flor (Miridae) (1 female) [new VC record]

**Records from Coille Cottage, Roxburghshire (VC80), NT525165**

- 8-10 September 2021 [R012]  
*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (2 males) [new VC record]

**Records from Kinnaird, East Perthshire (VC89), NO241291**

- 27 July 2021 [R001]  
*Acanthosoma haemorrhoidale* (Linnaeus) (Acanthosomatidae) (1 male)  
 9 September 2021 [R002]  
*Lygocoris pabulinus* (Linnaeus) (Miridae) (1 female)  
*Phytocoris tiliae* (Fabricius) (Miridae) (1 male)

9-10 October 2021 [R003]

*Pantilius tunicatus* (Fabricius) (Miridae) (1 male) [new VC record]

17-19 October 2021 [R004]

*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (1 female) [new VC record]

Week commencing 26 October 2021 [R005]

*Acanthosoma haemorrhoidale* (Linnaeus) (Acanthosomatidae) (1 male)

*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (5 females)

### **Records from Beinn Eighe I, West Ross & Cromarty (VC105), NH024629**

19-21 April 2019 [R016]

*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (47 males, 1 female)

6-18 May 2019 [R018]

*Anthocoris nemorum* (Linnaeus) (Anthocoridae) (1 female)

6-19 June 2019 [R020]

Miridae nymphs (8)

20-30 June 2019 [R021]

*Neolygus contaminatus* (Fallén) (Miridae) (1 female)

Miridae nymph (1)

1-10 July 2019 [R022]

*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (1 male, 1 female)

11-29 July 2019 [R023]

*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (1 male)

*Elasmucha grisea* (Linnaeus) (Acanthosomatidae) (1 male)

*Apolygus lucorum* (Meyer-Dür) (Miridae) (1 male)

*Bothynotus pilosus* (Boheman) (Miridae) (2 males) [new VC record]

*Lygocoris pabulinus* (Linnaeus) (Miridae) (2 males, 1 female)

*Neolygus contaminatus* (Fallén) (Miridae) (1 male)

*Orthotylus virescens* (Douglas & Scott) (Miridae) (1 female)

17-21 July 2019 [R026]

*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (1 male, 2 females)

*Lygocoris pabulinus* (Linnaeus) (Miridae) (2 females)

30 July – 12 August 2019 [R024]

*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (1 male)

*Lygocoris pabulinus* (Linnaeus) (Miridae) (1 female)

1 November – 12 December 2019 [R025]

*Acanthosoma haemorrhoidale* (Linnaeus) (Acanthosomatidae) (1 male)

3-14 September 2021 [R013]

*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (4 males, 4 females)

23-27 September 2021 [R014]

*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (6 males, 8 females)

11-17 October 2021 [R015]

*Neolygus contaminatus* (Fallén) (Miridae) (1 female)

### **Summary of records for each site and year**

Starcross, 2018

*Pinalitus cervinus* (Herrich-Schaeffer) (Miridae) (1 male)

Starcross, 2019

*Acanthosoma haemorrhoidale* (Linnaeus) (Acanthosomatidae) (1 male)

*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (2 males)

*Physatocheila dumetorum* (Herrich-Schaeffer) (Tingidae) (1 male)

*Nabis ferus* (Linnaeus) (Nabidae) (1 male, 1 female)

*Anthocoris nemorum* (Linnaeus) (Anthocoridae) (1 female)

*Orius vicinus/laticollis* (Anthocoridae) (1 female)

- Loricula elegantula* (Baerensprung) (Microphysidae) (1 male)  
*Apolygus spinolae* (Meyer-Dür) (Miridae) (1 male, 1 female)  
*Compsidolon salicellum* (Herrich-Schaeffer) (Miridae) (1 male) [new VC record]  
*Dicyphus errans* (Wolff) (Miridae) (1 male)  
*Lygocoris pabulinus* (Linnaeus) (Miridae) (1 male)  
*Lygus rugulipennis* Poppius (Miridae) (5 males, 1 female)  
*Macrolophus pygmaeus* (Rambur) (Miridae) (1 male) [new VC record]  
*Orthotylus viridinervis* (Kirschbaum) (Miridae) (1 male) [new VC record]  
*Phytocoris longipennis* Flor (Miridae) (1 male) [new VC record]  
*Phytocoris varipes* Boheman (Miridae) (1 male)  
*Pinalitus cervinus* (Herrich-Schaeffer) (Miridae) (3 males, 1 female)  
*Plagiognathus chrysanthemi* (Wolff) (Miridae) (1 female) [new VC record]  
*Stenotus binotatus* (Fabricius) (Miridae) (14 males)
- Jealott's Hill, 2019
- Elasmostethus interstinctus* (Linnaeus) (Acanthosomatidae) (1 male, 2 females)  
*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (15 males, 2 females)  
*Nabis ferus* (Linnaeus) (Nabidae) (1 male, 2 females)  
*Orius vicinus/latiollis* (Anthocoridae) (2 males, 1 female)  
*Temnostethus gracilis* Horváth (Anthocoridae) (1 male)  
*Adelphocoris lineolatus* (Goeze) (Miridae) (1 male)  
*Capsus ater* (Linnaeus) (Miridae) (1 female)  
*Charagochilus gyllenhalii* (Fallén) (Miridae) (3 males)  
*Compsidolon salicellum* (Herrich-Schaeffer) (Miridae) (1 female)  
*Deraeocoris lutescens* (Schilling) (Miridae) (1 female)  
*Harpocera thoracica* (Fallén) (Miridae) (2 males)  
*Macrolophus pygmaeus* (Rambur) (Miridae) (1 male) [new VC record]  
*Macrotylus horvathi* (Reuter) (Miridae) (4 males) [new VC record]  
*Macrotylus solitarius* (Meyer-Dür) (Miridae) (3 males, 1 female)  
*Malacocoris chlorizans* (Panzer) (Miridae) (1 male)  
*Miridius quadrvirgatus* (A Costa) (Miridae) (3 males, 1 female)  
*Oncotylus viridiflavus* (Goeze) (Miridae) (4 males)  
*Orthops basalis* (A Costa) (Miridae) (1 male)  
*Orthops kalmii* (Linnaeus) (Miridae) (6 males)  
*Orthotylus bilineatus* (Fallén) (Miridae) (1 male)  
*Pachytomella parallela* (Meyer-Dür) (Miridae) (1 male)  
*Phoenicocoris obscurellus* (Fallén) (Miridae) (2 males)  
*Phytocoris varipes* Boheman (Miridae) (83 males)  
*Pinalitus cervinus* (Herrich-Schaeffer) (Miridae) (4 males)  
*Polymerus unifasciatus* (Fabricius) (Miridae) (1 male)  
*Stenodema calcarata* (Fallén) (Miridae) (1 male, 1 female)  
*Stenotus binotatus* (Fabricius) (Miridae) (6 males)  
*Trigonotylus caelestialium* (Kirkaldy) (Miridae) (3 males, 2 females)  
*Trigonotylus ruficornis* (Geoffroy) (Miridae) (2 females)
- Colwyn Bay, 2019
- Orius vicinus/latiollis* (Anthocoridae) (1 female)  
*Phoenicocoris obscurellus* (Fallén) (Miridae) (5 males) [new VC record]  
*Phylus melanocephalus* (Linnaeus) (Miridae) (1 male)  
*Psallus confusus/mollis* (Miridae) (1 female)
- Colwyn Bay, 2021
- Elasmostethus interstinctus* (Linnaeus) (Acanthosomatidae) (3 males, 1 female)  
*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (1 male)  
*Blepharidopterus angulatus* (Fallén) (Miridae) (2 males)  
*Lygocoris pabulinus* (Linnaeus) (Miridae) (1 male)  
*Phytocoris longipennis* Flor (Miridae) (1 female) [new VC record]  
*Phytocoris pini* Kirschbaum (Miridae) (1 male)

- Phytocoris tiliae* (Fabricius) (Miridae) (1 male)  
 Coille Cottage, 2021  
*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (2 males) [new VC record]  
 Kinnaird, 2021  
*Acanthosoma haemorrhoidale* (Linnaeus) (Acanthosomatidae) (2 males)  
*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (6 females) [new VC record]  
*Lygocoris pabulinus* (Linnaeus) (Miridae) (1 female)  
*Pantilius tunicatus* (Fabricius) (Miridae) (1 male) [new VC record]  
*Phytocoris tiliae* (Fabricius) (Miridae) (1 male)  
 Beinn Eighe I, 2019  
*Acanthosoma haemorrhoidale* (Linnaeus) (Acanthosomatidae) (1 male)  
*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (50 males, 4 females)  
*Elasmucha grisea* (Linnaeus) (Acanthosomatidae) (1 male)  
*Pentatoma rufipes* (Linnaeus) (Pentatomidae) (1 male)  
*Anthocoris nemorum* (Linnaeus) (Anthocoridae) (1 female)  
*Apolygus lucorum* (Meyer-Dür) (Miridae) (1 male)  
*Bothynotus pilosus* (Boheman) (Miridae) (2 males) [new VC record]  
*Lygocoris pabulinus* (Linnaeus) (Miridae) (2 males, 4 females)  
*Neolygus contaminatus* (Fallén) (Miridae) (1 male, 1 female)  
*Orthotylus virescens* (Douglas & Scott) (Miridae) (1 female)  
 Miridae nymphs (9)  
 Beinn Eighe I, 2021  
*Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae) (10 males, 12 females)  
*Neolygus contaminatus* (Fallén) (Miridae) (1 female)

### Comments

The sites for most of the light traps are promising for the addition of new vice-county records of Hemiptera-Heteroptera. Most recording effort in the British Isles has been dedicated to southern Britain, in particular south-east England (Ryan 2019b). Consequently, any records from Northern England, Scotland and Ireland are potentially interesting. North Wales is also less well recorded, compared with the southern part of that country. The list for Devon suffered many losses when divided into the lists for VC3 and VC4, since many old records could not be assigned to a specific vice-county (Ryan, 2018). The addition of two new records for Berkshire was a surprise given how well-worked this vice-county is; but *Macrotylus horvathi* (Reuter) (Miridae) was only recently added to the British Isles list (Ryan, 2012b), and *Macrolophus pygmaeus* (Rambur) (Miridae) has been the subject of a species split, with the loss of all its records, and its recorded distribution is still recovering (Ryan, 2017).

The winter records for *Pinalitus cervinus* (Herrich-Schaeffer) (Miridae) from Starcross nicely confirm that this species does pass the winter in the adult stage, at least in part (Southwood & Leston, 1959). *Bothynotus pilosus* (Boheman) (Miridae) is a seldom-encountered species, which Southwood & Leston describe as ‘very local’, and it was therefore a great pleasure to find it amongst the Beinn Eighe I material. Also nice to see was *Phytocoris pini* Kirschbaum (Miridae) from Colwyn Bay, which is a northern and western species, not usually found in south-east England (Ryan, 2019a). Similarly, *Pachytomella parallela* (Meyer-Dür) (Miridae) is seldom encountered in south-east England, and has only recently been added to the Berkshire list (Ryan, 2012a). The capture at Beinn Eighe I of nine nymphs indicates that it is possible for bugs to end up in this trap without having flown there.

### Acknowledgements

I am very grateful to the entomologists Andrew Judd (Starcross), Ian Sims (Jealott’s Hill), Helen Shaw (Colwyn Bay), Michelle Stamp (Coille Cottage), Trefor Woodford and Adrian Riley (Kinnaird), and Alison Rowe (Beinn Eighe) for taking the trouble to gather and pass on the Hemiptera-Heteroptera, to Ian Sims (again) and Tristan Bantock through whom most of this material came to me, and to the Light-trap Network Co-ordinator Chris Shortall for organising the supply of material. I am also grateful to Chris for his helpful comments on drafts of this article.

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### Appendix

Ian Sims sent me a list of records from some of the above sites for 2018, determined by Tristan Bantock. These include three additional records new to the Atlas, as follows.

*Lygus pratensis* (Linnaeus) (Miridae): 9 August 2018, Starcross (VC3)  
*Orthocephalus saltator* (Hahn) (Miridae): 12 June 2018, Beinn Eighe I (VC105)  
*Orthotylus junipericola* Linnavuori (Miridae): 3 August 2018, Jealott's Hill (VC22)

Chris Shortall passed on a list of Heteroptera from Julian Small that had been found in the light trap at Wheldrake, Yorkshire (SE690446, VC61). (Although located west of the River Derwent, the BSBI digital vice-county mapping ([herbariaunited.org/gridrefVC/](http://herbariaunited.org/gridrefVC/), <https://database.bsbi.org/gridref.php>) puts this location in South-east, not Mid-west, Yorkshire.) There are two species on the list new to the Atlas for VC61: *Phytocoris populi* (Linnaeus) (Miridae) and *Psallus mollis* (Mulsant & Rey) (Miridae).

I have also seen material from Jealott's Hill in 2021 which included a further new vice-county record for VC22: *Psallus betuleti* (Fallén) (Miridae), 12-16 June 2021. This species has been the subject of a recent species-split, with the loss of all its records (Ryan, 2015).

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**RHYPAROCHROMUS VULGARIS (SCHILLING) (HEMIPTERA: LYGAEIDAE) IN BERKSHIRE.** Two adults were present under a discarded cupboard door on a spoil heap covered in a ruderal assemblage dominated by nettles, at the edge of a former plant nursery site in Swallowfield (SU727645) on 14 March 2022. Subsequently, a wide-ranging reptile monitoring survey using roofing felt squares did not yield any more specimens, despite *Scolopostethus* and *Drymus* (Lygaeidae) being in abundance up until 10 April 2022. JONTY DENTON, 31 Thorn Lane, Four Marks, Hants GU34 5BX.

## NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA

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I recently sent an Excel spreadsheet containing 223 records of Hemiptera-Heteroptera to Rob Ryan, which he checked against the Distribution and Atlas (Ryan, 2019). The data set was found to contain 15 new vice-county records, which I list below. Unless indicated otherwise, specimens are retained in my carded reference collection, and collected and determined by myself.

*Taphropeltus hamulatus* (Thomson) (Lygaeidae)

VC3: 10/05/2005, SX498484, Wembury Point, two, disturbed grassland.

*Lamproplax picea* (Flor) (Lygaeidae)

VC5: 04/08/2011, SS902409, Atcham & Ham, Holnicote Estate, one, suction sample of mire.

*Megalonotus dilatatus* (Herrich-Schaeffer) (Lygaeidae)

VC5: 10/08/2015, SS898431, East Water Valley, one, suction sample short turf acid grassland.

*Adomerus biguttatus* (Linnaeus) (Cydnidae)

VC5: 09/06/2015, SS892440, Horner Woods, one, sweeping *Melampyrum*.

*Megalonotus emarginatus* (Rey) (Lygaeidae)

VC6: 14/06/1995, ST470543, Cheddar Gorge, one, det. P. Kirby.

*Scolopostethus puberulus* Horváth (Lygaeidae)

VC7: 20-26/06/2012, SU062937, Waterhay, Cotswold Water Park, one, pitfall trap.

*Stygnocoris fuliginus* (Geoffroy) (Lygaeidae)

VC7: 11/11/1998, SU026948, Cotswold Water Park, one.

*Megalonotus emarginatus* (Rey) (Lygaeidae)

VC8: 27/05-07/07/2021, ST875553, Woodside Wood, one, vane trap at base of oak.

*Pachybrachius luridus* Hahn (Lygaeidae)

VC9: 15/07/2008, SZ022842, Brand's Bog, Studland Heath, one; 29/03/2019, SY80228662, Winfrith Heath, one, sweeping mire; 15/08/2019, SU09361165, Cripplestyle, one, suction sample of mire; 01/09/2020, SY9587, The Moors, Arne, one, sweeping mire.

*Hallodapus montandoni* Reuter (Miridae)

VC24: 27/06/2018, SP95851637, Ivinghoe Hills, one, suction sample calcareous grassland.

*Chilacis typhae* (Perris) (Lygaeidae)

VC36: 22/08/2011, SO508630, Berrington Hall, two, lake edge.

*Scolopostethus thomsoni* Reuter (Lygaeidae)

VC36: 17-30/05/2012, SO446656, Croft Castle estate, one, interception trap.

*Ischnodemus sabuleti* (Fallén) (Lygaeidae)

VC37: 27/06/2019, SO89054412, Croome Park, one, suction sample of grassland.

*Megalonotus emarginatus* (Rey) (Lygaeidae)

VC39: 10/08/2001, SK100558, Wetton Hill, one.

*Acompus rufipes* (Wolff) (Lygaeidae)

VC50: 08/08/2008, SJ3347, Sontley Marsh, Erddig Estate, one.

### Acknowledgements

Thanks to Rob Ryan for help compiling this note and to Peter Kirby for determining various of my bugs over the years.

### Reference

Ryan, R. P. 2019. The vice-county distribution and atlas of the Hemiptera-Heteroptera of the British Isles. *Hemipterist* **6**: 1-210.

**NEW VICE-COUNTY RECORDS OF HEMIPTERA-HETEROPTERA  
FROM DENBIGHSHIRE (VC50)**

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I recently sent an Excel spreadsheet containing 45 records of Hemiptera-Heteroptera to Rob Ryan, which he checked against the Distribution and Atlas (Ryan, 2019). The data set was found to contain 6 new vice-county records for VC50, which I list below.

*Stephanitis takeyai* Drake & Maa (Tingidae)

08/10/21, SJ 351549, Gresford garden, 1, sweeping Forest Flame.

*Dicyphus constrictus* (Boheman) (Miridae)

24/06/21, SJ 182619, Clwyd Forest South, 1, sweeping.

*Dicyphus errans* (Wolff) (Miridae)

02/09/21, SJ 351549, Gresford garden, 3, sweeping.

*Orthotylus tenellus* (Fallén) (Miridae)

22/07/21, SJ 351549, Gresford garden, 1, sweeping.

*Phytocoris ulmi* (Linnaeus) (Miridae)

29/07/21, SJ191583, Bryn Heidd, 3, on various trees.

*Trigonotylus caelestialium* (Kirkaldy) (Miridae)

28/06/21, SJ 404525, Holt Meadows verge, 1, vacuum sampling.

**Reference**

Ryan, R. P. 2019. The vice-county distribution and atlas of the Hemiptera-Heteroptera of the British Isles. *Hemipterist* **6**: 1-210.

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**IS *PODOPS INUNCTUS* (FABRICIUS) (HEMIPTERA: PENTATOMIDAE) MYRMECOPHILOUS?** I have recorded the Turtle Bug in 18 vice-counties, and consider it a common species, but this is no small part due to my being an inveterate debris flipper, and long-time herpetologist! My observations of it using reptile monitoring refugia was first mentioned in Hawkins (2003, *Shieldbugs of Surrey*. Surrey Wildlife Trust, Pirbright). I now have over 100 records, with the vast majority from under surface refugia, especially those which heat up. The ground dwelling autecology is such that it is rarely swept, and the other main method is sieving moss and litter.

Ants are also rapidly drawn to artificial reptile refugia (felts, mats and corrugated sheeting (both metal and bituminous)) and so finding *Podops* nymphs and adults in close proximity to ants is difficult to interpret as proof of myrmecophily. The arch ant-nest investigator Horace Donisthorpe recorded no association, but a recent observation at Popes Manor, Binfield, Berkshire on the 6 July 2020 was rather telling. I was peeling back bark on a large prostrate willow trunk in search of *Microdon* Meigen (Diptera: Syrphidae) larvae in the galleries of *Lasius platythorax* Seifert (Hymenoptera: Formicidae), where a single adult *Podops* was tightly tucked away surrounded by workers on the upper side of the trunk some 40cm from the ground floor. JONTY DENTON, 31 Thorn Lane, Four Marks, Hants GU34 5BX.

**A CASE OF RANDOM ASYMMETRY IN THE HEMIPTERA-HETEROPTERA**

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Species of Hemiptera-Heteroptera, like many other animals, have bilateral symmetry in their external anatomy, about an axis from the tip of the head to the tip of the abdomen. Well, almost. There are some features which may be different between the right and the left, such as the male genitalia. The right and left claspers are frequently different in form. However, there is another obvious asymmetric feature, which is particular to the Heteroptera, the overlapping membranes of the hemelytra. Do bugs fold their forewings right on top of left, or left on top of right? Is this preference the same for all species of bug, or are some species right over left and others left over right?

During spare moments at my desk, I have been looking at this issue and have been surprised to find that for each of several species examined, individuals can be either right over left or left over right, without any obvious preference. An example dataset is given below for *Elasmotethus interstinctus* (Linnaeus) (Acanthosomatidae), from surplus light trap material (Ryan, 2022).

	Right over left	Left over right	Total
Male	29	29	58
Female	8	10	18
Total	37	39	76

Are there genetic differences between the two forms causing the preference, so that one could breed a pure strain of one preference? Or is the preference simply due to chance during development? Or do individuals randomly fold their wings one way or the other after each flight? I would be interested to hear of any comments from readers.

**Reference**

Ryan, R. P. 2022. Some light trap records of Hemiptera-Heteroptera from the Rothamsted Insect Survey. *Hemipterist* 9: 277-284.

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**THE DEPOSITION OF PRINTED COPIES OF THE *HEMIPTERIST* IN LIBRARIES.** Printed copies of all eight complete volumes of this journal have been deposited in libraries, in order to help provide a permanent record. These are spiral bound in A4 format. There have been eleven recipient libraries, but recently the library of the Linnean Society informed me that they no longer have space for the journal. So, the current ten recipients of printed copies are the British Library, the five other copyright libraries (Oxford, Cambridge, Aberystwyth, Edinburgh and Dublin), and the libraries of the Royal Entomological Society, British Entomological and Natural History Society, Natural History Museum and Oxford University Museum. Online copies of the journal volumes have been, and will continue to be, uploaded to the Internet Archive (<https://archive.org/>). I was surprised to learn from Library Hub Discover (<https://discover.libraryhub.jisc.ac.uk/>) that there are twelve other libraries that have added to their catalogues a link to the journal webpage (<https://sites.google.com/site/thehemipterist/>). R. P. RYAN, 38 St John Street, Oxford, UK, OX1 2LH, RobRyanBugs@gmail.com.

**SOME OBSERVATIONS IN CULTURE OF *AROCATUS* SPINOLA  
(HEMIPTERA: LYGAEIDAE) FROM ALDER AND PLANE**

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**Introduction**

There are two very similar species of *Arocatus* Spinola (Lygaeidae) in Britain, one associated with alder (*Alnus* Mill., Betulaceae), *Arocatus roeselii* Schilling, and the other with plane (*Platanus* L., Platanaceae), *Arocatus longiceps* Stål. The two cannot be separated easily by any other anatomical means than colour (pers. comm. Dr Berend Aukema), the plane form being more variable in colour, and generally paler, than the alder form. It is not unusual for species of Heteroptera to be specific for multiple hosts, or to be general feeders, and it is therefore possible that the two forms are really two phenotypes of a single species. The colour difference could be due to the difference in diet, to natural selection (the ripe fruits of plane are paler than those of alder), or to sampling bias.

With regard to the last, in my experience, the only way to find *Arocatus* on plane is by peeling off the bark in winter, where and when adults can be taken in good numbers (Ryan, 2014). It is difficult beating plane when in foliage due to the uncontrollable coughing that results, presumably due to the release of the fine pubescence which is inhaled and irritates the lungs. In contrast, I have never found *Arocatus* on alder in winter, but I have taken it in small numbers of adults and nymphs beating alder foliage in the late summer (Ryan, 2014). If this sampling bias is generally the case, and the winter and summer forms are of different appearance, as they are in some other species of Heteroptera, then this may account for the observed difference in appearance of the plane and alder forms.

I am not aware of any cross-breeding experiments to investigate this matter, and Dr Aukema states that significant molecular differences between the two forms have not been found. However, there is work that a natural historian like myself can do to shed light on the matter. To test whether the two forms are specific to their respective hosts, and whether the difference in colouration is due to foodplant, one could simply switch the food plant of the bugs in culture and see what happens. More specifically, one could first place in culture *Arocatus* from one host plant with both alder and plane, to see if the bugs will voluntarily feed on the foreign food plant. Then, if feeding on both food plants is observed, and if sufficient bugs are available to provide meaningful results, one could divide the culture into two separate cultures, one on alder alone and one on plane alone, and make comparative observations over time. In this article I present the results of just such an experiment.

**Field work and cultures**

Given my previous experience with *Arocatus*, the most likely way to obtain sufficient material for the above experiment would be to search under plane bark in winter and keep the adults alive until spring, when they can be placed in culture. So, in the winter of 2021/2022, I searched for *Arocatus* in Oxford, where I had previously obtained ample material under plane bark. Alas, none was found, except one dead individual. Undaunted, with the arrival of spring, I took to beating plane. However, the usual problem arose of severe coughing as I worked the material, and no *Arocatus* was found. My records revealed that I had never tried to beat the alder form of the bug in the spring, only in late summer, so in the period 3-8 June 2022 I visited the alders along the River Thames, River Cherwell and Castle Mill Stream in Oxford, and took a total of eighteen *Arocatus* adults. These varied in the red colouring of the forewings, some being more orange than red, but none were as pale as some of those taken under plane bark in winter. The beaten debris was retained, gently tossed in a kitchen sieve at home, and the resulting finer debris passed under a microscope. This revealed numerous, tiny nymphs and several eggs.

The adults and nymphs/eggs were placed into separate cultures, each with a sprig of alder bearing leaves and numerous unripe, green fruits. The ripe, dark-brown, last year's fruits ('cones') and red-brown seeds from the beaten debris were also added to the cultures. All plant material was examined for invertebrates carried with them before adding to the cultures, specifically for pre-existing *Arocatus*

eggs and nymphs, parasites and predators; and the cones and seeds were left in a freezer overnight to further guard against contamination of the culture. Also added to the cultures was some plant material from plane (seeds and unripe fruits), to see if any of the bugs might visit and feed upon it. Whole ripe plane fruits were not added, as the prior examination of these involved taking them apart, leaving just a pile of seeds. During this examination, I found numerous tiny nymphs and eggs among the seeds within the ripe fruits. (It was a surprise to find that *Arocatus* lays its eggs here, as most plane ripe fruits had already dropped by this time, and the eggs and nymphs they contained would have ended up in the ground litter.)

This discovery initiated a new phase of collecting, and in the period of 6-9 June 2022 the planes of Little Clarendon Street, St Giles, Parks Road and Christ Church Meadow in Oxford, were searched and all ripe fruits within reach were collected, filling a total of four sandwich boxes. These were kept in separate culture from the alder form, and alder material (seeds and unripe fruits) were added, to provide a parallel experiment to that of the alder form. Five adult *Arocatus* (three males and two females) were found amongst the collected ripe fruits, which were kept in culture with the nymphs and eggs, as it was not considered likely that anything meaningful could be concluded from the separate culture of so few individuals. These adults showed similar variation in forewing colour as the adults beaten from alder.

The foreign plant material introduced to the cultures attracted bugs, and feeding was seen on the foreign host plant, as well as the plant from which the bugs were derived. In the nymph cultures, this material was removed after several days and placed in separate culture with its attending bugs. For the culture of adults from alder it was not considered that a division of this culture would produce meaningful results due to the small number of individuals. So, I now had five cultures: adults from alder on alder; nymphs and eggs from alder on alder; nymphs from alder on plane; nymphs, eggs and adults from plane on plane; and nymphs from plane on alder.

### Observations in culture

The culture of eighteen adults from alder ended on 16 June, when the last died. Coupling and egg-laying was observed, and the first egg was noticed on 5 June. There were sixteen corpses at the end of the culture, seven females and nine males, with two evidently having escaped the culture. The dead females were dissected to reveal 30 unlaidd eggs (distributed as 20, 4, 4, 2, 0, 0 and 0). The plant material was examined for eggs, finding a total of 131, all matching those dissected: two on alder leaves (upper surface), three on unripe plane fruits, one at the base of an unripe alder fruit, one on an alder twig, and 124 inserted into the cavities of the alder cones. It was clear early in the culture that the ripe alder fruits were attracting a lot of egg laying, so these were removed and replaced with fresh material part way through, to prevent the first eggs hatching in the adult culture. The eggs were incubated with fresh plant material, added with a view to later dividing the young nymphs into alder-only and plane-only cultures. The first nymphs were noticed on 14 June. However, there was high mortality amongst these, and none developed further than the third instar, all being dead by 9 July. The culture was not divided, but feeding was seen on both the alder and plane material.

The cultures of nymphs beaten from alder, on both food plants, only produced adults of *Kleidocerys resedae* (Panzer) (Lygaeidae), a common bug of alder. These nymphs were distinct from those hatched from eggs in the above culture, and it is likely that little or no *Arocatus* nymphs were among the catch. It is nevertheless interesting that *K. resedae* willingly feeds on plane, in the presence of alder, and can be reared to adult on plane alone, on which plant it has not previously been reported in the British Isles (Ryan, 2021).

The two cultures of nymphs from plane were much more successful, both food plants producing many adults. There was no noticeable difference in appearance between the nymphs of the two cultures. Cannibalism was twice observed, several nymphs surrounding a single victim in each case. The first reared adult was found on alder on 27 June, with two more observed on the following day. At this time, five reared adults were found on plane. More adults emerged, on both plants, over the following days. The freshly emerged adults were translucent, the brightly-coloured patches first becoming yellow-orange, then dull-orange, then red-orange, then red-brown, over the first ten days since emergence; the ground colour of the forewings then being dark brown. At this point, the colouring of the adult forewings was an excellent match for the red-brown of the seeds and the dark brown of the husks of the alder cones. This was the same on both food plants, which was surprising given that the original nymphs

came from ripe plane fruits, that are light straw-brown in colour. These mature adults were seen to fly around the plastic box containing the culture.

The reared mature adults, eventually totalling 30 individuals, were pooled and incubated as above for the adults beaten off alder, in the hope of observing egg laying again. However, no coupling or egg-laying was seen, and no eggs were found. The final adult died on 30 July, nearly five weeks after the first adult appeared, and nearly eight weeks from the start of the culture. Given that the mature adults were seen to fly around the culture, presumably trying to disperse, was the inability to disperse the reason no coupling and egg-laying took place? It is too early in the season for adults to hibernate, and there was plenty of time to produce a second generation; which is found in the field on alder in late summer. Is dispersal a prerequisite to breeding and the production of the late-summer generation?



FIGURE 1. *Arocatus* females beaten from alder in late summer 2013 in Oxford.

### Conclusions

The original intention of this study was to obtain a large number of adult *Arocatus* from plane in winter, breed them in separate cultures on plane and alder in the spring, and make comparisons between the two. Although I failed to obtain bugs in winter, and subsequently failed to obtain sufficient bugs by beating in the spring, as expected, I fortuitously discovered that ample eggs and nymphs could be obtained by collecting ripe plane fruits in the spring. So, through a piece of good luck, the study was back on course, and the breeding experiment resulted in 30 reared adults across the two cultures. This was considered sufficient to make reasonable comparisons, and the following conclusions are drawn.

The plane form of *Arocatus* is not obliged to feed on this plant, and will feed on both alder and plane when in culture with both plants. When young nymphs from plane are placed in culture with alder alone, they can be reared through to adults. Clearly, the plane bugs are not specific to this host plant. It would be interesting to see whether, in the field, adults from one plant can and do disperse to the other and produce a subsequent generation. If adults developed on plane should find themselves on alder, there is no reason to suppose they could not breed there. Presumably, the switch from alder to plane could also take place.

During development, nymphs from plane reared on plane alone and alder alone are indistinguishable in form, and the emerged adults go through the same colour changes during a ten-day maturation, both cultures producing mature adults with a forewing colour of red-brown patches on a dark-brown ground. These are indistinguishable in colouring to adults taken from alder in summer, and are an excellent match for the ripe fruits of alder, but not for the ripe fruits of plane, suggesting that the bugs are adapted for life on alder, but will use plane as an alternate host. The *Arocatus* adults from alder were seen to lay almost all of their eggs on alder, with few on plane, clearly preferring the former for egg-laying. It would be useful to repeat this culture with adults from plane, if sufficient material could be obtained.

The range of colour forms of overwintering *Arocatus* adults on plane, match the different colour stages of maturing reared adults from this plant, suggesting that the former were slowed and/or arrested in their maturation of forewing colour by the onset/arrival of winter. Given that there is a narrower range of colouration in adults taken in the spring, on both alder and plane, the maturation of forewing colour could resume in the spring. Obviously, if I should find a sufficient quantity of *Arocatus* in winter, this hypothesis would be easy to test.

It is important in situations like this to avoid confirmation bias. It has never been demonstrated that the plane and alder forms of *Arocatus* are separate species, but this study demonstrates that the two reported differences between the two forms, host plant specificity and colouration, appear not to be valid. Had a study such as this been undertaken when the plane and alder forms were first described, it is perhaps unlikely that they would have been given separate specific status. Therefore, I suggest that a more appropriate working assumption is that both the alder and plane bugs are the same species, with the name *Arocatus roeselii* (Schilling), this being the older of the two names.

### Acknowledgments

I am very grateful to Dr Berend Aukema for his comments on the status of the species before I embarked upon this study, and to Zhenhuan Zhang for her companionship during one of the field visits.

### References

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**ANTHOCORIS VISCI DOUGLAS (HEMIPTERA: ANTHOCORIDAE) IN HAMPSHIRE, SURREY AND MIDDLESEX.** I first encountered this bug on mistletoe growing on common limes *Tilia x vulgaris* in Bushy Park, Middlesex (VC21) (TQ1569) in June 2004, and it was again widespread on hawthorns *Crataegus monogyna* across much of the park in June 2019 (TQ1569). On 9 June 2019 I again found adults on mistletoe literally weighing down a small mature apple tree at Gages Close, Itchen Abbas, North Hampshire (VC12) (SU530327), and on infested hawthorns growing on Yew Hill, King's Somborne, South Hampshire (VC11) (SU351320). It was also abundant at Sherfield English (VC11) (SU292228) on 12 April 2022 on large clumps of mistletoe on large poplars brought down in the February gales. These appear to be new vice-county records. *A. visci* was again found on mistletoe infesting Norway maple *Acer platanoides* and sugar maple *Acer saccharum* in the grounds of the University of the Creative Arts in Farnham, Surrey (VC17) (SU835469) on 6 July 2019, but this is a second county record, as J. A. Hollier took it on Mitcham Common (TQ2868) on 28 September 1983. JONTY DENTON, 31 Thorn Lane, Four Marks, Hants GU34 5BX.

**RHYPAROCHROMUS VULGARIS (SCHILLING) (HEMIPTERA: LYGAEDAE) IN SOUTH WILTSHIRE (VC8).** Adults were present under a roofing felt square used as reptile monitoring refugia across waste ground on the chalk off Pearce Way, Salisbury, (SU160321) on 26 May 2022, the first for Wiltshire and VC8. JONTY DENTON, 31 Thorn Lane, Four Marks, Hants GU34 5BX.

## HEMIPTERA-HETEROPTERA FROM AN OXFORDSHIRE “BRECKLAND” SITE

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English Nature’s natural region the Mid-vale Ridge runs from Wiltshire north eastwards across modern Oxfordshire (VC22 and VC23) into Buckinghamshire. The region is formed by the Corallian beds of the Jurassic system, being a mixture of limestones and sands. It is the sands, mostly Lower Calcareous Grit which produce soils similar to the Brecklands of East Anglia, which in the past were described as “so light and hungry as to be hardly worth while cultivating”. The sands vary from calcareous to slightly acidic due to leaching often in small patches. Sand is still excavated commercially in several locations, whilst other areas have been planted with conifers or made into golf courses. Today with modern farming methods large areas now grow arable crops.

One farm, which the enlightened owner wishes to remain confidential, has some 170 acres of the sands which he has managed by sheep grazing in the autumn and winter and where needed mechanical topping in the winter, this being the only management. This has been an ongoing process for about thirty years and has given rise to a magnificent array of flora and fauna many of which are nationally rare, especially amongst the ground beetles (Coleoptera: Carabidae) and Hemiptera-Heteroptera.

I have been privileged for the last twenty years to visit the farm when time permitted to record the flora and fauna, especially the Hemiptera. Recording of the last has been mainly by sweep net and beating supplemented by a limited amount of pit fall trapping. For recording purposes the sandy fields lie in modern Oxfordshire, but in Watsonian Berkshire (VC22), and falls into four tetrads.

Each of the seven fields has its own character, which is reflected in the species that are present, although further species certainly remain to be found. My coverage has not been equal for all of the fields. The lists for each field (see Table 1) do include species from the hedges, field margins and areas where the sands run into the Kimmeridge Clay, giving rise to damper conditions.

Field 1. This field is dominated by quite tall grasses with shorter more open patches which are dominated by herbs such as Sheep’s Sorrel (*Rumex acetosella*), Ladies Bedstraw (*Gallium verum*), and Mouse-ear Hawkweed (*Pilosella officinarum*). Field Scabious (*Knautia arvensis*) is scattered in one area giving rise to the records of *Placochilus seladonicus*. The bordering hedges are mostly Hawthorn (*Crataegus monogyna*), with White Poplar (*Populus alba*) and Broom (*Cytisus scoparius*) amongst other shrubs and trees. A small enclosure contains Scots Pine (*Pinus sylvaticus*), Silver Birch (*Betula pendula*) and Pedunculate Oak (*Quercus robur*).

Field 2. An under recorded field, with Hawthorn hedges on three sides and Scots Pine on the fourth beneath which *Plinthisus brevipennis* occurs. There are a number of Broom bushes along one margin. It is more herb rich than field 1, with patches of both Black and Greater Knapweed (*Centaurea nigra* and *C. scabiosa*) being common, along with Hares-foot Clover (*Trifolium arvense*) and Perforate St John’s Wort (*Hypericum perforatum*).

Field 3. Dominated by tall and thicker grasses over much of its extent, with various vetches (*Vicia* spp.), Yarrow (*Achillea millefolium*) and Oxeye Daisy (*Leucanthemum vulgare*). One side has fairly mature Pedunculate Oak trees, whilst the southern hedge is Hawthorn with an area of English Elm (*Ulmus procera*) saplings. The western hedge contains White Poplar, and there is an enclosure similar to that in field 1.

Field 4. This field shares the Elm hedge with field 3 while its western hedge contains a mixture of trees including Hedge Maple (*Acer campestre*), from which *Arocatus longiceps* was taken in 2018. The field slopes southward and the southern margin is damp with Water Mint (*Mentha aquatica*), Goat and Grey Willow (*Salix caprea* and *S. cinerea*). It is here that *Zicrona caerulea* occurs, though not on the sands. A strip has been planted with trees and shrubs including Silver Birch and Hazel (*Corylus avellana*), and another enclosure is shared with field 5 similar to those already described but with a good stand of Gorse (*Ulex europaeus*). There is an area where it is dominated by short grasses and is rich in herbs such as Sheep’s Sorrel, Hares-foot Clover, Lady’s Bedstraw, and Medicks (*Medicago* spp.).



FIGURE 1. Field 3 with a typical planting of Scots pine, birch, oak and gorse. Plantings in other fields are similar in age and constituents.



FIGURE 2. Field 7 with two ploughed strips, autumn-ploughed on the right and spring-ploughed on the left. Although scorched, the difference in flora is quite apparent.



FIGURE 3. Field 2 showing Broom growing between the hedge and headland, the line of Scots Pine in the background and grass and herbs in the field.



FIGURE 4. Rabbit grazing and disturbance at field 6.



FIGURE 5. Field 6. Close up of rabbit grazing and disturbance. Scorched in mid-August, but shows close grazing and bare earth.

Field 5. A field dominated by herbs, not grass, with Oxeye Daisy, Bugloss (*Anchusa arvensis*), both Napweeds, Wild Carrot (*Daucus carota*) and introduced Kidney Vetch (*Anthyllis vulneraria*). The scrubby Elm hedge continues for a short way from field 4.

Field 6. An ancient Hawthorn hedge forms the western boundary, with Silver Birch and a large Lawson's Cypress (*Chamaecyparis lawsoniana*) from which *Cyphostethus tristriatus* is recorded. To the east the field slopes downward to a deeply incised stream which is bordered by damp loving herbs and Goat and Grey Sallow and a few pollard Crack Willows (*Salix fragilis*). The southern boundary is artificial, a mown track with field seven to the south. This field has almost certainly been dug in places for sand with a number of large hollows, in four of which small ponds have been made. This area is intensively grazed by rabbits (*Oryctolagus cuniculus*) giving rise to a very short sward dominated by Storksbill (*Erodium cicutarium*), Mouse-ears (*Cerastium* spp.) and Forget-me-nots (*Myosotis* spp.), and plenty of bare sand around the rabbit burrows. Viper's Bugloss (*Echium vulgare*) is widespread and patches of Ladies Bedstraw increasing in size.

Field 7. The eastern and western boundaries are continuations from field 6. The southern margin is wet with rank grass and a wet wood. The main area is short dry grassland with various herbs and patches of Ladies Bedstraw and Ox-eye Daisy. Two adjoining strips of about twenty metres width run the full length of the field from north to south. The strips have been ploughed annually for about fifteen years, one in spring and the other in autumn, to allow arable weeds to grow. The autumn strip has plenty of Hares-foot Clover, three species of Poppy (*Papaver* spp.), Night-flowering Catchfly (*Silene noctiflora*), White Campion (*Silene latifolia*) and the hybrid *Silene x hampeana*. The spring strip is dominated by Mugwort (*Artemisia vulgaris*), Broad-leaved Dock (*Rumex obtusifolium*) and various species of Chenopodiaceae.

With 242 species of Heteroptera recorded from these seven fields, it is worth commenting on some of the more notable species.

Coreidae. *Arenocoris falleni* was first found in 2020 on the disturbed ground amongst the rabbit burrows by hand searching and pit fall trapping between May and June. Having pit fall trapped in the same area in recent years I assume it is a recent colonist. A single specimen of *Bathysolen nubilus* was caught in a pit fall trap in 2008. The area had previously had stone dumped on it for wall repairs that had made the immediate area almost barren of vegetation. Obviously, an attempt to see if this species is still present is needed. *Syromastus rhombeus* was last recorded in the same hectad in 1949 by the late Dr. Walter Le Quesne, the specimen from field 7 was swept from Hares-foot Clover on 6 August 2021 and it will be interesting to see if it becomes an established species on the farm.

Rhopalidae. *Liorhyssus hyalinus* was first recorded on 25 August 2005, and has now been recorded on seven occasions, all by sweep netting. *Rhopalus rufus* has been found on eight occasions, all in August and *Rhopalus maculatus* that has been recorded twice, also in August.

Lygaeidae. *Drymus pumilio* has been recorded in July and September from three fields. *Eremocoris podagricus* is only recorded from field 2 beneath the Scots Pine trees. With Viper's Bugloss in all of the fields *Graptopeltus lynceus* is numerous especially in field 6. *Megalonotus dilatatus* was first found in 2018 and is now well established. *Megalonotus praetextatus* is particularly numerous on the bare sandy areas around the rabbit burrows, while *Megalonotus sabulicola* was first recorded in May 2013 and is associated with Common Storks-bill. *Metopoplax ditomoides* was first recorded in August 2006 and *Nysius helveticus* was found in July 2018, although there are no Heathers (*Calluna* spp.), with which this species is normally associated. Also associated with heathers is *Scolopostethus decoratus* recorded from field 5. *Taphropeltus hamulatus* was found at the end of July 2009, and has been found at a nearby site as well.

Berytidae. Although recorded in the general area in 1949, *Neides tipularius* was not recorded here until 2007 and is now common and widespread. Of the five species of *Berytinus*, *B. minor* is the most common, while *B. montivagus* is the least recorded.

Tingidae. *Catoplatus fabricii* occurs in fields 2, 5 and 7 where there is plenty of Ox-eye Daisy. *Kalama tricornis* does not appear to be associated with any particular plants, but low and thin vegetation, and of course dry conditions.

Miridae. *Deraeocoris olivaceus*, first recorded in 2011, is found on the ancient Hawthorns of the hedge running along the western side of fields 6 and 7. *Hallodapus montandoni* was found on field 1 and is associated with ants, especially *Myrmica scabrinodis* (Hymenoptera: Formicidae) which are common. *Lygus pratensis* was first recorded in 2005 and is particularly frequent on the vegetation of the spring ploughed strip. *Monosynamma sabulicola* has been recorded once in September 1998, from the willows and sallows along the stream which forms the eastern boundary of field 6. *Polymerus unifasciatus* was first recorded in 2019 and is already common amongst the larger stands of Ladies Bedstraw, which in turn are expanding. *Notostira erratica* has probably been present for much longer than the recent records, but has been overlooked.

My thanks to Rob Ryan for suggesting this article and for advice on improving the original draft. Thanks are also due to Dr Peter Kirby and the late Drs. Bernard Nau and Walter Le Quesne for help with identifications. In conclusion, preparing this article has highlighted how much more work I need to do on the seven fields and other Mid-vale ridge sandy areas.

## Reference

Ryan, R. P. 2019. The vice-county distribution and atlas of the Hemiptera-Heteroptera of the British Isles. *Hemipterist* 6: 1-210.

TABLE 1 (FOLLOWING PAGES). Lists of species for each field, P = present. Statuses are from the British Bugs website (<http://www.britishbugs.org.uk>): C = Common; L = Local; N = Notable; RDB = Red Data Book; U = Uncommon; VA = Vagrant/Accidental; WS = Widely Scattered. There are seven species new to the Vice-county Atlas (Ryan, 2019) for VC22, which are marked with an asterisk.

Species	Status	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
<b>Acanthosomatidae</b>				o				
<i>Acanthosoma haemorrhoidale</i>	C	P	P	P	P		P	P
<i>Cyphostethus tristriatus</i>	C						P	
<i>Elasmostethus interstinctus</i>	C	P			P	P	P	P
<i>Elasmucha grisea</i>	C	P	P	P	P	P	P	
<b>Cydnidae</b>								
<i>Legnotus limbosus</i>	C				P			P
<i>Sehirus luctuosus</i>	C	P	P	P		P	P	P
<i>Tritomegas bicolor</i>	C	P		P	P		P	P
<b>Thyreocoridae</b>								
<i>Thyreocoris scarabaeoides</i>	C	P	P	P	P	P	P	P
<b>Scutelleridae</b>								
<i>Eurygaster testudinaria</i>	C	P		P	P	P	P	P
<b>Pentatomidae</b>								
<i>Aelia acuminata</i>	C	P	P	P	P	P	P	P
<i>Dolycoris baccarum</i>	C	P	P	P	P	P	P	P
<i>Eurydema oleracea</i>	C	P			P		P	P
<i>Palomena prasina</i>	C	P		P	P	P	P	P
<i>Pentatoma rufipes</i>	C	P	P	P	P	P	P	P
<i>Picromerus bidens</i>	C				P			
<i>Piezodorus lituratus</i>	C	P	P	P	P	P		P
<i>Podops inunctus</i>	C		P		P	P		P
<i>Zicrona caerulea</i>	C				P			
<b>Coreidae</b>								
<i>Arenocoris fallenii</i>	L						P	
<i>Bathysolen nubilus</i>	L				P			
<i>Ceraleptus lividus</i>	L	P		P	P			

Species	Status	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
<b>Coreidae (continued)</b>								
<i>Coreus marginatus</i>	C	P	P	P	P	P	P	P
<i>Coriomeris denticulatus</i>	C	P	P	P	P	P	P	P
<i>Gonocerus acuteangulatus</i>	L			P				
<i>Syromastus rhombeus</i>	L							P
<b>Rhopalidae</b>								
<i>Corizus hyoscyami</i>	L		P		P	P	P	P
<i>Liorhyssus hyalinus</i>	L	P				P	P	P
<i>Myrmus miriformis</i>	C	P	P	P	P		P	
<i>Rhopalus maculatus</i>	L				P			P
<i>Rhopalus parumpunctatus</i>	C	P		P	P	P	P	P
<i>Rhopalus rufus</i> *	L	P		P		P	P	P
<i>Rhopalus subrufus</i>	C	P		P	P			P
<i>Stictopleurus abutilon</i>	Na	P	P	P	P	P	P	P
<i>Stictopleurus punctattonervosus</i>	Na		P		P	P	P	P
<b>Lygaeidae</b>								
<i>Arocatus longiceps</i>	C				P			
<i>Chilacis typhae</i>	C	P						
<i>Cymus claviculus</i>	C						P	
<i>Cymus melanocephalus</i>	C	P		P	P	P		
<i>Drymus brunneus</i>	C	P		P	P	P	P	P
<i>Drymus pumilio</i>	Na				P		P	P
<i>Drymus ryeii</i>	C	P	P	P	P	P	P	P
<i>Drymus sylvaticus</i>	C	P	P		P		P	P
<i>Eremocoris podagricus</i>	L		P					
<i>Gastrodes grossipes</i>	C	P	P					
<i>Graptopeltus lynceus</i>	Nb	P	P	P		P	P	P

Species	Status	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
<b>Lygaeidae</b> ( <i>continued</i> )								
<i>Heterogaster urticae</i>	C	P	P	P	P		P	P
<i>Ischnodemus sabuleti</i>	C	P		P	P			P
<i>Kleidocerys resedae</i>	C	P	P	P	P	P	P	P
<i>Megalonotus chiragra</i>	C	P	P	P	P	P	P	p
<i>Megalonotus dilatatus</i>	Nb	P		P	P			P
<i>Megalonotus emarginatus</i>	L		P	P		P	P	P
<i>Megalonotus praetextatus</i>	Nb	P	P	P	P	P	P	
<i>Megalonotus sabulicola</i>	Nb		P				P	
<i>Metopoplax ditomoides</i>	-	P	P					P
<i>Nysius ericae</i>	C	P		P				P
<i>Nysius graminicola</i> *	RDB3							P
<i>Nysius helveticus</i>	RDB3							P
<i>Nysius senecionis</i>	C					P	P	P
<i>Peritrechus geniculatus</i>	C	P	P	P	P	P	P	P
<i>Peritrechus lundii</i>	L			P			P	P
<i>Plinthisus brevipennis</i>	L		P					
<i>Scolopostethus affinis</i>	C							P
<i>Scolopostethus decoratus</i>	C					P		
<i>Scolopostethus puberulus</i>	L		P		P		P	P
<i>Scolopostethus thomsoni</i>	C	P		P	P	P	P	P
<i>Stygnocoris fuliginus</i>	C	P		P	P	P	P	P
<i>Stygnocoris rusticus</i>	L	p		p	p	p	p	p
<i>Stygnocoris sabulosus</i>	C	P		P	P	P	P	P
<i>Taphropeltus contractus</i>	C							P
<i>Taphropeltus hamulatus</i> *	Nb							P
<i>Trapezonotus arenarius</i>	C	P		P	P	P	P	P

Species	Status	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
<b>Lygaeidae</b> ( <i>continued</i> )								
<i>Trapezonotus desertus</i>	C	P		P	P		P	P
<b>Berytidae</b>								
<i>Berytinus clavipes</i>	L	P				P	P	
<i>Berytinus crassipes</i>	L	P	P	P		P	P	
<i>Berytinus montivagus</i>	C						P	
<i>Berytinus minor</i>	C	P	P	P	P	P	P	P
<i>Berytinus signoreti</i>	C				P			
<i>Neides tipularius</i>	L	P				P	P	P
<b>Tingidae</b>								
<i>Acalypta parvula</i>	C	P		P	P	P	P	P
<i>Catoplatys fabricii</i>	Nb		P			P		P
<i>Dictyonota fuliginosa</i>	C		P		P			
<i>Dictyonota strichnocera</i>	C		P	P	P		P	
<i>Kalama tricornis</i>	L	P	P			P	P	
<i>Physatocheila dumetorum</i>	C	P	P	P	P		P	P
<i>Tingis ampliata</i>	C	P			P		P	P
<i>Tingis cardui</i>	C	P	P		P		P	P
<b>Reduviidae</b>								
<i>Empicoris vagabundus</i>	C			P				
<b>Nabidae</b>								
<i>Himacerus apterus</i>	C	P	P	P	P	P	P	P
<i>Himacerus boops</i>	L	P					P	P
<i>Himacerus major</i>	C	P	P	P	P	P	p	p
<i>Himacerus mirmicoides</i>	C	P	P	P	P	P	P	P
<i>Nabis ferus</i>	C	P	P	P	P		P	P
<i>Nabis flavomarginatus</i>	C	P	P	P	P	P	P	P

Species	Status	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
<b>Nabidae (continued)</b>								
<i>Nabis limbatus</i>	C	P	P	P	P	P	P	P
<i>Nabis rugosus</i>	C	P	P	P	P	P	P	P
<b>Anthocoridae</b>								
<i>Acompocoris pygmaeus</i>	C				P			
<i>Anthocoris confusus</i>	C			P	P	P	P	
<i>Anthocoris gallarumulmi</i>	L					P		
<i>Anthocoris limbatus</i>	L				P			
<i>Anthocoris nemoralis</i>	C	P	P	P	P	P	P	P
<i>Anthocoris nemorum</i>	C	P	P	P	P	P	P	P
<i>Anthocoris sarothamni</i>	C	P	P	P				
<i>Cardiastethus fasciiventris</i>	L				P			
<i>Elatophilus nigricornis</i>	C							P
<i>Lyctocoris campestris</i>	C					P		
<i>Orius laevigatus</i>	C	P					P	
<i>Orius laticollis</i>	L	P	P		P	P	P	P
<i>Orius majusculus</i>	C	P	P	P		P	P	P
<i>Orius niger</i>	C	P	P		P	P	P	P
<i>Orius vicinus</i>	C	P			P	P	P	
<i>Temnostethus gracilis</i>	L	P						
<i>Temnostethus pusillus</i>	C	P					P	P
<i>Temnostethus tibialis</i>	RDB3							P
<i>Tetraphleps bicuspis</i>	C		P	P			P	
<i>Xylocoris cursitans</i>	C							P
<i>Xylocoris galactinus</i>	C							P
<b>Miridae</b>								
<i>Acetropis gimmerthalii</i>	L	P			P		P	

Species	Status	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
<b>Miridae</b> ( <i>continued</i> )								
<i>Adelphocoris lineolatus</i>	C	P	P	P	P	P	P	P
<i>Alloeotomus gothicus</i>	C		P	P				
<i>Amblytylus nasutus</i>	C	P	P	P	P	P	P	P
<i>Apolygus lucorum</i>	C	P	P	P	P	P	P	P
<i>Apolygus spinolae</i>	C	P	P	P	P	P	P	P
<i>Asciodema obsoleta</i>	C			P	P			P
<i>Atractotomus mali</i>	C	P		P	P		P	
<i>Atractotomus parvulus</i>	C		P					
<i>Blepharidopterus angulatus</i>	C		P		P	P	P	
<i>Blepharidopterus diaphanus</i>	C	P						
<i>Calocoris roseomaculatus</i>	C	P	P	P	P	P	P	P
<i>Campylomma annulicorne</i>	C	P		P	P	P	P	P
<i>Campylomma verbaschi</i> *	U	P	P	P	P	P	P	P
<i>Campyloneura virgula</i>	C	P		P		P	P	P
<i>Capsus ater</i>	C	P	P	P	P	P	P	p
<i>Charagochilus gyllenhalii</i>	C							P
<i>Chlamydatus pullus</i>	C	P						
<i>Chlamydatus saltitans</i>	C							P
<i>Closterotomus fulvomaculatus</i>	C	P	P	P	P	P		P
<i>Closterotomus norvegicus</i>	C	P	P	P	P	P	P	P
<i>Cyllecoris histrionius</i>	C		P	P	P			
<i>Deraeocoris flavilinea</i>	VA	P	P	P	P		P	P
<i>Deraeocoris lutescens</i>	C	P	P	P	P	P	P	P
<i>Deraeocoris olivaceus</i>	Nb						P	P
<i>Deraeocoris ruber</i>	C	P	P	P	P	P	P	P
<i>Deraeocoris scutellaris</i> *	L		P				P	P

Species	Status	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
<b>Miridae</b> ( <i>continued</i> )								
<i>Dichroscytus rufipennis</i>	Nb				P			
<i>Dicyphus annulatus</i>	C	P						
<i>Dicyphus epilobii</i>	C						P	P
<i>Dicyphus errans</i>	C	P	P	P	P	P	P	P
<i>Dicyphus globulifer</i>	C	P	P	P	P			
<i>Dicyphus stachydis</i>	C							P
<i>Dryophilocoris flavoquadrimaculatus</i>	C	P		P	P			
<i>Europiella artemisiae</i>	C	P	P	P	P	P	P	P
<i>Hallodapus montandoni</i> *	RDB3	P						
<i>Halticus apterus</i>	L							P
<i>Halticus saltator</i>	Nb							P
<i>Harpocera thoracica</i>	C	P		P	P			
<i>Heterocordylus genistae</i>	C	P	P		P			
<i>Heterocordylus tibialis</i>	C	P	P	P	P			
<i>Heterotoma planicornis</i>	C	P	P	P	P	P	P	P
<i>Hoplomachus thunbergii</i>	L							P
<i>Leptopterna dolabrata</i>	C	P	P	P	P	P	P	P
<i>Leptopterna ferrugata</i>	C	P	P	P	P	P	P	P
<i>Liocoris tripustulatus</i>	C	P	P	P	P	P	P	P
<i>Lopus decolor</i>	C	P		P	P	P	P	P
<i>Lygocoris pabulinus</i>	C	P	P	P	P	P	P	P
<i>Lygus maritimus</i>	L	P			P			P
<i>Lygus pratensis</i>	RDB3	P	P	P		P	P	P
<i>Lygus rugulipennis</i>	C	P	P	P	P	P	P	P
<i>Lygus wagneri</i>	C							P
<i>Macrotylus paykullii</i>	L	P						

Species	Status	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
<b>Miridae</b> ( <i>continued</i> )								
<i>Macrotylus solitarius</i>	C	P	P	P	P	P	P	P
<i>Malacocoris chlorizans</i>	C	P		P	P	P	P	P
<i>Mecomma ambulans</i>	C				P			P
<i>Megacoelum infusum</i>	C	P	P	P		P		
<i>Megaloceroea recticornis</i>	C	P	P	P	P	P	P	P
<i>Megalocoleus molliculus</i>	C	P	P	P	P		P	P
<i>Megalocoleus tanacetii</i>	C			P	P		P	P
<i>Miris striatus</i>	C	P		P	P			
<i>Monalocoris filicis</i>	C			P				
<i>Monosynamma sabulicola</i>	Nb						P	
<i>Neolygus contaminatus</i>	C	P						
<i>Neolygus populi</i>	C	P						
<i>Neolygus viridis</i>	C							P
<i>Notostira elongata</i>	C	P	P	P	P	P	P	P
<i>Notostira erratica</i>	L						P	P
<i>Oncotylus viridiflavus</i>	C	P	P	P		P		
<i>Orthocephalus coriaceus</i>	L	P	p	P	P	P	P	P
<i>Orthocephalus saltator</i>	L	P	P	P	P	P	P	P
<i>Orthonotus rufifrons</i>	WS							P
<i>Orthops basalıs</i>	C		P					P
<i>Orthops campestris</i>	C			P	P		P	P
<i>Orthops kalmii</i>	C				P			P
<i>Orthotylus adenocarpı</i>	C		P		P			
<i>Orthotylus bilineatus</i>	C				P			
<i>Orthotylus concolor</i>	C				P			
<i>Orthotylus flavosparsus</i>	C	P		P	P		P	P

Species	Status	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
<b>Miridae</b> ( <i>continued</i> )								
<i>Orthotylus marginalis</i>	C			P	P			
<i>Orthotylus nassatus</i>	C	P	P		P		P	P
<i>Orthotylus ochrotrichus</i>	C	P		P	P		P	P
<i>Orthotylus tenellus</i>	C	P	P	P	P	P		P
<i>Orthotylus virescens</i>	C	P	P		P			
<i>Pantilius tunicatus</i>	C	P					P	P
<i>Phoenicocoris obscurellus</i>	C		P	P				
<i>Phylus coryli</i>	C	P			P			
<i>Phylus melanocephalus</i>	C	P	P		P		P	
<i>Phytocoris dimidiatus</i>	WS							P
<i>Phytocoris reuteri</i>	WS						P	P
<i>Phytocoris tiliae</i>	C				P			
<i>Phytocoris varipes</i>	C	P	P	P	P	P	P	P
<i>Pilophorus cinnamopterus</i>	WS		P					
<i>Pilophorus perplexus</i>	L	P		P				
<i>Pinalitus cervinus</i>	C	P				P	P	P
<i>Pithanus maerkelii</i>	WS	P			P	P	P	P
<i>Placochilus seladonicus</i>	RDBK	P						
<i>Plagiognathus arbustorum</i>	C	P	P	P	P	P	P	P
<i>Plagiognathus chrysanthemi</i>	C	P	P	P	P	P	P	P
<i>Platycranus bicolor</i>	WS			P	P	P		P
<i>Polymerus nigrita</i>	WS			P		P		P
<i>Polymerus unifasciatus</i>	L	P	P	P	P	P	P	P
<i>Psallus ambiguus</i>	WS		P		P			
<i>Psallus assimilis</i>	WS						P	
<i>Psallus confusus</i>	C	P			P			

Species	Status	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
<b>Miridae</b> ( <i>continued</i> )								
<i>Psallus falleni</i>	WS			P			P	P
<i>Psallus flavellus</i>	WS			P				P
<i>Psallus lepidus</i>	C						P	
<i>Psallus mollis</i>	C		P	P	P		P	
<i>Psallus montanus</i>	-				P		P	
<i>Psallus perrisi</i>	C	P	P					
<i>Psallus quercus</i>	L	P	P	P	P			
<i>Psallus salicis</i>	C				P			P
<i>Psallus varians</i>	C		P		P			
<i>Psallus wagneri</i>	WS	P			P		P	P
<i>Reuteria marqueti</i> *	-				P			
<i>Rhabdomiris striatellus</i>	C				P			P
<i>Salicarus roseri</i>	WS				P		P	
<i>Stenodema calcarata</i>	C	P	P	P	P	P	P	P
<i>Stenodema holsata</i>	C	P		P	P	P	P	P
<i>Stenodema laevigata</i>	C	P	P	P	P	P	P	P
<i>Stenotus binotatus</i>	C	P	P	P	P	P	P	P
<i>Sthenarus rotermundi</i>	WS	P		P	P		P	P
<i>Tinicephalus hortulanus</i>	L					P		
<i>Trigonotylus caelestialium</i>	WS	P	P	P	P	P	P	P
<i>Trigonotylus ruficornis</i>	C	P	P	P	P	P	P	P
<b>Total species</b>		<b>147</b>	<b>111</b>	<b>127</b>	<b>153</b>	<b>105</b>	<b>140</b>	<b>156</b>

***MACROTYLUS HORVATHI* (REUTER) (HEMIPTERA: MIRIDAE)  
NEW TO WATSONIAN OXFORDSHIRE (VC23)**

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I had noticed that several of the records for this insect occurred along waterways, and in 2022 I decided to search for its host plant, Black Horehound, *Ballota nigra* L. (Lamiaceae), along the River Thames in Oxford, in the hope of finding the bug new to Watsonian Oxfordshire (Ryan, 2019). On 15 July, a number of stands were found. Where the plant was in the shade of trees, none of the insect was seen in my sweep net; but in a more open situation near Folly Bridge (SP511055), several adults were taken. This was on the west bank of the river which, in this location, lies in Watsonian Berkshire (VC22). From this vice-county the bug had already been reported (Ryan, 2022). A return visit to this area on 22 July found the bug on the east bank (SP513056), again in an open situation, adding the insect to the list for VC23.

It is interesting that the bug was not found in shade, as in my experience its congener *Macrotylus solitarius* (Meyer-Dür) also prefers open situations, on its foodplant Hedge Woundwort, *Stachys sylvatica* L. (Lamiaceae).

**References**

- Ryan, R. P. 2019. The vice-county distribution and atlas of the Hemiptera-Heteroptera of the British Isles. *Hemipterist* **6**: 1-210.  
Ryan, R. P. 2022. Some light trap records of Hemiptera-Heteroptera from the Rothamsted Insect Survey. *Hemipterist* **9**: 277-284.

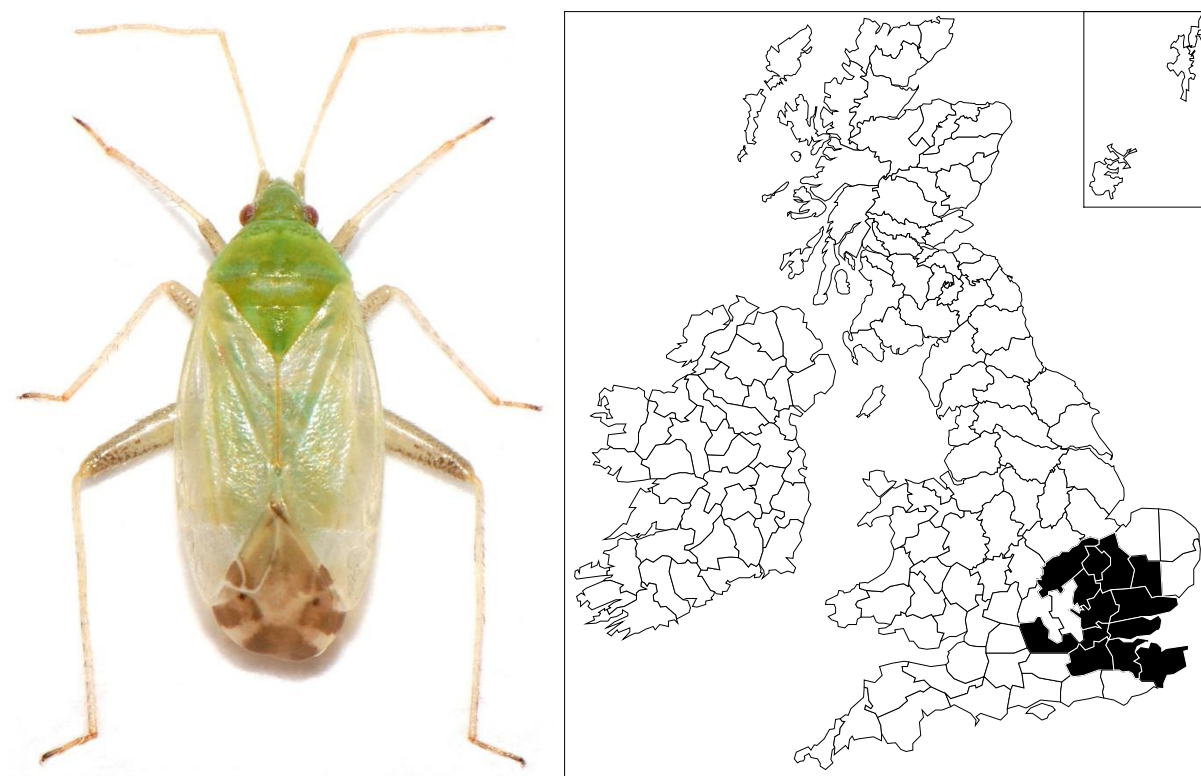


FIGURE 1. *Macrotylus horvathi* (female) and previous vice-county distribution.

***RAGLIUS ALBOACUMINATUS* (GOEZE) (HEMIPTERA: LYGAEIDAE) NEW TO  
WATSONIAN OXFORDSHIRE (VC23)**

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On 23 August 2022, I was invited by a friend, Zhenhuan Zhang, for an afternoon of birding on Port Meadow, Oxford, during which we took a break at an outdoor café by the River Thames (SP497075). As we were supping our ginger ale, an unfamiliar, brightly-marked seedbug landed on our table. I promptly removed a tube from my pocket and placed the open end over the insect, which then obligingly ran up the inside, allowing the tube to be capped easily.

At home the insect was identified as *Raglius alboacuminatus* (Goeze) (Lygaeidae), my first of this species (Figure 1). According to the latest interim release of the Vice-county Distribution and Atlas (Ryan, 2019), this bug has already been reported from Watsonian Berkshire (VC22), but not from Watsonian Oxfordshire (VC23). Given that the capture took place on the western bank of the Thames, such a location would normally be in VC22, but the vice-county boundary in this area strays west from the Thames, departing between Osney and Grandpont, following the Bulstake Stream, and arriving back at the Thames in Godstow (<https://database.bsbi.org/gridref.php>). So, this record is for VC23, and is therefore new to the Atlas.

**Reference**

Ryan, R. P. 2019. The vice-county distribution and atlas of the Hemiptera-Heteroptera of the British Isles. *Hemipterist* **6**: 1-210.

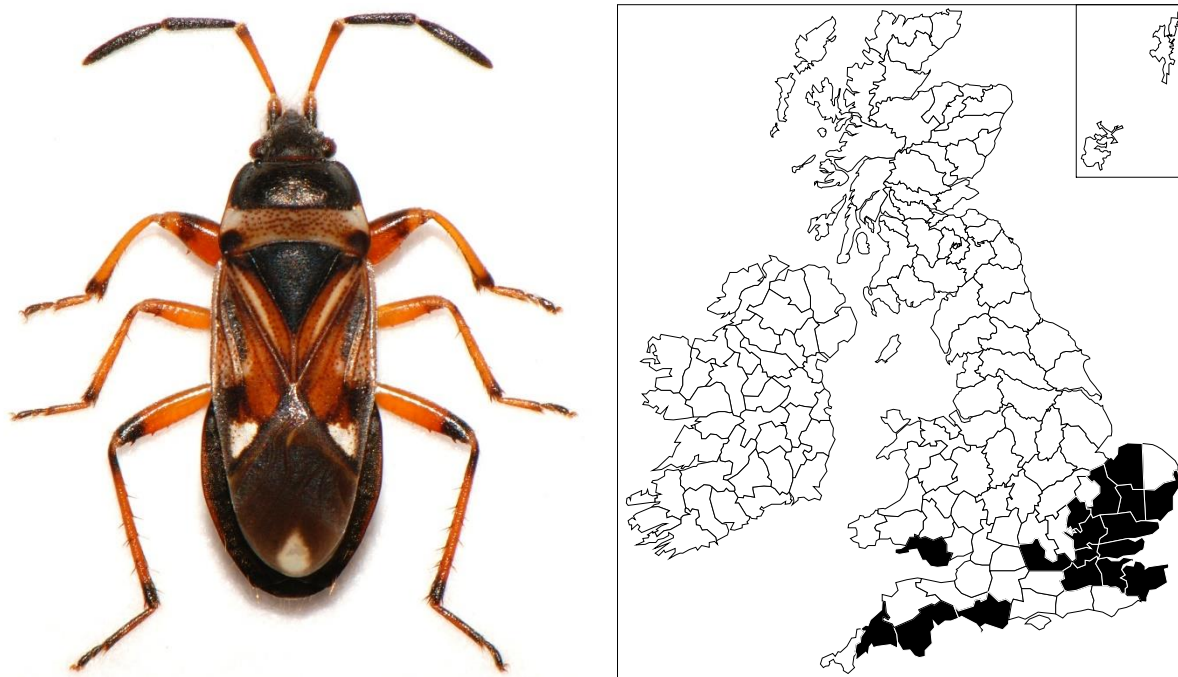


FIGURE 1. *Raglius alboacuminatus* (female) and previous vice-county distribution.

**HEMIPTERA-HETEROPTERA ON THE FLOWER HEADS OF GREAT BURNET,  
*SANGUISORBA OFFICINALIS* L. (ROSACEAE)**

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It is widely accepted that recording and mapping are not the same thing. Nevertheless, most reported records for the Hemiptera-Heteroptera are primarily geographical, being additions to (vice-)county lists or new hectads plotted on maps. However, so much of interest can be discovered by recording based upon particular habitats or host plants instead. In the latter case, an entertaining hour or so can be spent with tube or pooter in hand going from plant to plant.

On 29 July 2022, I was walking through New Marston Meadows, Oxford (SP518075) and was struck by the profusion of dark-red flower heads of Great Burnet towering above the grasses and other plants. These were examined one by one, and in addition to adults of *Lygus* Hahn (Miridae) there were five nymphs of a shieldbug and one of a squashbug. Two more of the shieldbug and one more of the squashbug were taken on a return visit two days later. The nymphs were reared at home on the plant, and I was not surprised by their identity, given the form of the nymphs: the Common Tortoise Shieldbug, *Eurygaster testudinaria* (Geoffroy) (Scutelleridae), and the Dock Squashbug, *Coreus marginatus* (Linnaeus) (Coreidae).

The significance of nymphs, over adults, is that the former cannot fly, and presumably got to the flowerheads by walking, from wherever nearby the eggs from which they hatched were laid. Although they may have strayed from adjacent plants, there is a much greater chance that Great Burnet is one of their hostplants, particularly since they were reared to adult on this plant.



FIGURE 1. Adults of *Eurygaster testudinaria* (left) and *Coreus marginatus* (right).

**VARIATION IN THE HEMELYTRAL MARKINGS  
OF *SALDULA PALLIPES* (FABRICIUS) (HEMIPTERA: SALDIDAE)**

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From 2014 onwards, I have been using the mud sweeping technique to obtain large numbers of Saldidae from the muddy shores of water bodies (Ryan, 2015, 2016, 2019a, 2019b). Among these, I have taken many examples of *Saldula pallipes* (Fabricius). Although variation in the hemelytral markings is typical of saldid species, it was particularly noted amongst my specimens of *S. pallipes*, in some cases causing me to consider whether I had found a different species. Fortunately, it is relatively straightforward to identify by other criteria, and can be reliably separated from *Saldula palustris* (Douglas) by examining the genitalia (Woodroffe, 1966). I reproduce below a selection of the forms I photographed (Figures 2 and 3), and also show two males of *S. palustris* (Figure 1) taken mud sweeping on the Spurn peninsula, Yorkshire (Ryan, 2019a), which I omitted to mention in my earlier article.

**References**

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- Ryan, R. P. 2016. Mud sweeping update. *Hemipterist* **3**: 68-70.
- Ryan, R. P. 2019a. The hunt for *Acalypta nigrina* (Fallén) (Hemiptera: Tingidae) on the North York Moors (VC62). *Hemipterist* **6**: 265-269.
- Ryan, R. P. 2019b. Another record of *Saldula pallipes* (Fabricius) (Saldidae) for Northamptonshire (VC32). *Hemipterist* **6**: 281.
- Woodroffe, G. E. 1966. A taxonomic note on *Saldula pallipes* (Fab.) and *Saldula palustris* (Doug.) (Hem., Saldidae). *Entomologist* **99**: 190-192.



FIGURE 1. Two males of *Saldula palustris*.



FIGURE 2. Four males of *Saldula pallipes*.



FIGURE 3. Four females of *Saldula pallipes*.

## WHERE DOES *PSALLUS LEPIDUS* FIEBER (HEMIPTERA: MIRIDAE) LAY ITS EGGS?

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The reader may recall a similar article to this on The Saint George's Bug, *Harpocera thoracica* (Fallén) (Miridae), which breeds on oak, and the answer to the question then was that eggs are laid in the wood at the junction of twig branches close to where next year's growth will occur (Ryan, 2020). The present bug, *Psallus lepidus* Fieber (Miridae) has a similar problem to *H. thoracica* in that it spends most of the year as an egg, and must find a place to lay its eggs close to next year's growth where it is sufficiently protected to survive the cold and wet of winter, the dry heat of summer, and avoid the attention of predators and parasites for ten to eleven months of the year.



FIGURE 1. *Psallus lepidus*, adult male (left) and female (right).

On 21 June 2016, I beat a number of *P. lepidus* from the host plant ash, *Fraxinus* L. (Oleaceae), along the River Thames at Radley, VC22 (SU535980). These were put in culture at home with leaves and twigs from the tree. The culture ended eight days later. The dead *P. lepidus* females were dissected, and two still had eggs (10 in each case). The dissection of the plant material revealed half a dozen eggs from the black buds only (Figure 2), which were similar to those dissected from the females. The control 'culture', of plant material only, did not contain any such eggs.

Ash differs from oak in that the buds that will produce next year's growth appear with the new foliage, whereas in oak they appear separately later in the year. This provides an alternative preferendum for early egg-laying on ash, which *P. lepidus* is clearly utilising. However, a problem with this choice is that the buds either produce reproductive parts or foliage, and these two events are separated by several weeks. Where I live in Oxfordshire, the former typically starts in the second week of March and

the latter in the second week of April. The bugs must presumably hatch before the buds burst, so if both kinds of buds are utilised for egg-laying, there will be two separate cohorts of adults emerging, later in the spring, several weeks apart. I have never observed the earlier cohort, and wonder if the egg-laying females can tell the difference between the two kinds of buds, and selectively lay their eggs on the later-bursting kind, which produce foliage rather than reproductive parts.

In the following year, I made a search for the earlier cohort. On 15 April, I beat a number of late-instar nymphs from an ash tree in New Marston Meadows, Oxford, VC23 (SP520078), which had abundant flowering parts but only a small number of buds starting to burst into foliage. In culture at home, the first adult appeared two days later, an example of *Pinalitus cervinus* (Herrich-Schaeffer) (Miridae). Over the next five days a total of 22 adults were reared, all of this species, and no *P. lepidus*.

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Ryan, R. P. 2020. Where does The Saint George's Bug, *Harpocera thoracica* (Fallén) (Hemiptera: Miridae), lay its eggs? *Hemipterist* 7: 335-337.



FIGURE 2. Eggs of *Psallus lepidus* revealed by dissection of the black buds on ash stems.

## NEW VICE-COUNTY RECORDS PUBLISHED IN OTHER JOURNALS

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The following records published in journals other than the *Hemipterist* are new to the Vice-county Distribution and Atlas (Ryan, 2019), and will be included in the next interim release.

*Coranus aethiops* Jakovlev (Reduviidae) Nottinghamshire (VC56) (Alexander *et al.*, 2022).  
*Nabis ferus* (Linnaeus) (Nabidae) Shetland (VC112) (Cubitt, 2021).  
*Lygus wagneri* Remane (Miridae) Shetland (VC112) (Cubitt, 2021).  
*Megacoelum infusum* (Herrich-Schaeffer) (Miridae) South Tipperary (VCH7) (Nelson *et al.*, 2020).  
*Globiceps flavomaculatus* (Fabricius) (Miridae) Worcestershire (VC37) (Whitehead, 2022).

Thanks to Danielle Czerkaszyn of the Oxford University Museum Library for her help providing the journal issues I consulted.

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- Ryan, R. P. 2019. The vice-county distribution and atlas of the Hemiptera-Heteroptera of the British Isles. *Hemipterist* **6**: 1-210.
- Whitehead, P. F. 2022. A notable humanly compromised Worcestershire floodplain entomofauna. *Entomologist's Gazette* **73**: 91-96.

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**APHANUS ROLANDRI (LINNAEUS) (HEMIPTERA: LYGAEIDAE) IN BERKSHIRE (VC22).** Hundreds of nymphs and occasional adults were found in and under the curled and crisped (post-drought) basal leaves of Great Mullein, *Verbascum thapsus* L. (Scrophulariaceae), on 26 August 2022 at an active quarry site, Harts Hill Quarry, near Thatcham, Berkshire. Every rosette grubbed yielded a similar result. This species is not included for VC22 in the Vice-county Atlas of the Hemiptera-Heteroptera of the British Isles (*Hemipterist* **6**: 1-210, <https://sites.google.com/site/britishhetbugatlas/home>). SCOTTY DODD, 11 Knowles Meadow, Hill Brow, Liss, Hants. GU33 7QW. jaapiella@yahoo.co.uk.

**HYPSELOECUS Visci (PUTON) AND PINALITUS VISCICOLA (PUTON) (HEMIPTERA: MIRIDAE) IN SURREY.** On 6 July 2019, I beat huge numbers of nymphs, teneral and mature adults of *H. visci* from mistletoe *Viscum album* infesting a mature Norway maple *Acer platanoides* in the grounds of the University of the Creative Arts in Farnham (SU835469). These appear to be the first records from VC17. Nearby a similarly parasitized sugar maple *Acer saccharum* yielded more *H. visci*, and a single *P. viscicola* (remarkably the first since the 19<sup>th</sup> Century in Surrey!). JONTY DENTON, 31 Thorn Lane, Four Marks, Hants GU34 5BX.

**CHARAGOCHILUS WEBERI WAGNER (HEMIPTERA: MIRIDAE)  
NEW TO WATSONIAN OXFORDSHIRE (VC23)**

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On 27 July 2022 I was walking along the hedgerows in New Marston Meadows, Oxford, when I noticed some straggly, low plants with pink flowers growing among grasses on the sides of the path (SP519079), which I did not recall having seen before. I swept these where they occurred, and was surprised to take three large examples of what I thought was *Charagochilus gyllenhalii* (Fallén), this being a rather unusual situation for the species, in my experience.

At home, the plant was easily identified as Red Bartsia, *Odontites vernus* (Bellardi) Dumort (Orobanchaceae), which immediately rang alarm bells, as the similar but larger bug *Charagochilus weberi* Wagner, a rarely encountered species in the British Isles, was first found in continental Europe on the congeneric, non-British plant *O. luteus* (L.) Clairv. Woodroffe (1965) reported the species new to Britain from Common Cow-wheat *Melampyrum pratense* L., also a member of the Orobanchaceae.

Two days later, I returned to the site and obtained three more females and one male, again by sweeping the plants; and on 1 August I obtained two more males, this time by placing my sweep net under the plants and striking them with my beating stick, to try to ensure that they were indeed from the Red Bartsia and not a neighbouring plant. At home the last pair were placed in culture with the host plant, onto which they immediately ran and started to feed. Another visit three days later failed to obtain any more of the insect as the meadows had been mown, and none of the host plant could be found.

A comparison of my nine specimens with the 12 males and 36 females of *C. gyllenhalii* in my voucher collection, clearly showed that the females were at the upper end of the size range for that sex, and the males were distinctly larger. This size comparison concurs with that of Wagner & Weber (1964). Other than size, the females of my specimens seemed indistinguishable to those of the genus in my collection; but the males had a longer and straighter abdomen, with the posterior portion of the hemelytra not strongly angled downwards, as is usual for *C. gyllenhalii*. I thought that the male specimens could be parasitised, producing the larger abdomen, but nothing emerged from the abdomens of the two in culture, and the dissection of one of them did not reveal anything unusual. A comparison of the genitalia of the dissected specimen with those of six males from my *C. gyllenhalii* collection was inconclusive, as there was too much variation in the form of latter.

The straighter hemelytra were mentioned by Woodroffe, although not exclusively associated with the male; but were not mentioned by Wagner & Weber. The authors also disagreed over details of anatomical difference, but Wagner confirmed Woodroffe's specimens to be of his species, having been sent material for examination.

My specimens from Red Bartsia are clearly different in form from those of *C. gyllenhalii* in my voucher collection; and are also from an unusual host plant, but a plant in the same family as the records from previous authors on *C. weberi*. I am not satisfied by the disagreements in description between the authors, nor by the fact that the only clear differences are in size and host plant. However, although I am not satisfied that I am dealing with two separate species, I am satisfied that my Red Bartsia specimens are of the form known as *C. weberi*. Has anyone else taken large *Charagochilus* Fieber from the Orobanchaceae?

**References**

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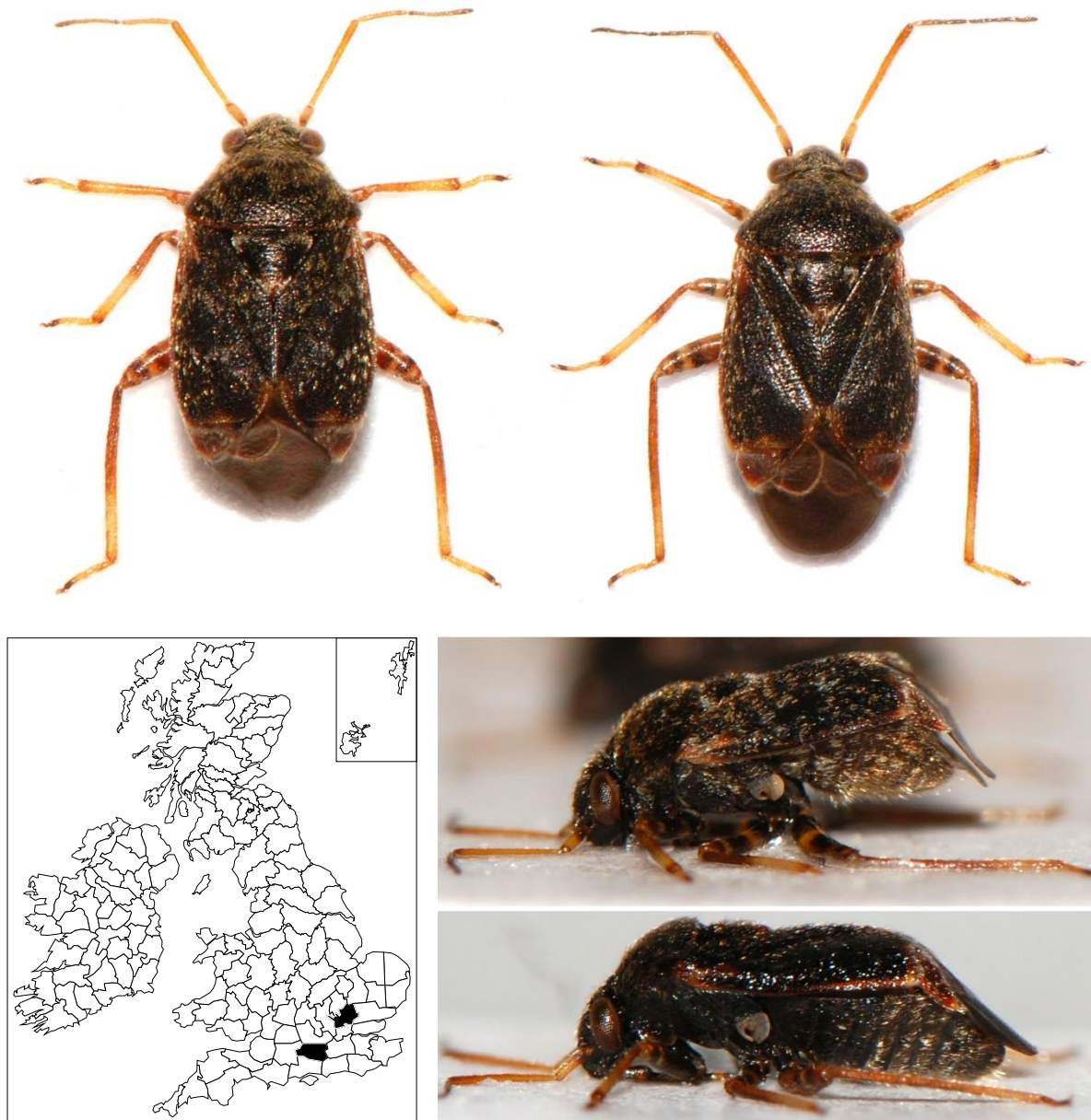


FIGURE 1. *Charagochilus weberi* from Red Bartsia in Oxford. Female (top left), male (top right), previous vice-county distribution (Ryan, 2019) (bottom left), and comparison in side view of female (upper) and male (lower).

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***BERYTINUS MONTIVAGUS* (MEYER-DÜR) (HEMIPTERA: BERYTIDAE) AND *DELPHACINUS MESOMELAS* (BOHEMAN) (HEMIPTERA: DELPHACIDAE) IN DURHAM (VC66).** Suction sampling yielded a male and a nymph of *Berytinus montivagus* in calcareous grassland on the Magnesian limestone on a steep south-facing verge above the A19 at Sheraton Bank (NZ4335) on 31 May 2022. I am unaware of previous published records from VC66. Sweeping nearby yielded males of *Delphacinus mesomelas* a range extension, the previous most northern being from near Pickering in Yorkshire. JONTY DENTON, 31 Thorn Lane, Four Marks, Hants GU34 5BX.

**DRAGVAC AS AN EFFICIENT METHOD FOR CAPTURING AND RECORDING  
*BERYTINUS* KIRKALDY (HEMIPTERA: BERYTIDAE)  
 AND A PLETHORA OF THE GENUS AT KIRTLINGTON QUARRY, OXFORDSHIRE**

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DragVac is a towed suction sampler, comprising a battery-powered upright vacuum cleaner (Vax LiFE) with the head removed, which is dragged through vegetation to sample deeper than normal sweeping (Ryan, 2013). When I originally reported this technique, I listed the interesting species taken, but did not give further details. Here I correct this omission for some of these.

In using DragVac, it is remarkable how many times examples of *Berytinus* Kirkaldy (Berytidae) are taken on dry grassland sites, when I normally only encounter examples of these here sweeping three or four times per year. Table 1 shows the results for *Berytinus* for a single period, the late summer of 2012. The ten sites visited are all dry grassland, mostly on the chalk of the Chiltern Hills and North Wessex Downs, but Enstone Quarry and Bradwell Grove are on sandy soils. Each site was visited once only, on the date given, and collecting was for up to one hour, until both of my lithium batteries were drained. The numbers of adult individuals of each of the four species taken (*Berytinus clavipes* (Fabricius), *Berytinus minor* (Herrich-Schaeffer), *Berytinus montivagus* (Meyer-Dür) and *Berytinus signoreti* (Fieber)) are shown for each site. The sites had all been swept for bugs on multiple occasions in previous years, and the total numbers of adult bugs taken by this alternate method are given in brackets for comparison.

It is immediately apparent from Table 1 how efficient DragVac is as a recording method for *Berytinus*, compared with sweeping, given the number of site records made and specimens taken. DragVac produced 13 site records and 42 specimens in the ten short, single visits, compared with just seven site records and 21 specimens after a great deal of sweeping over several years at these locations. At Bald Hill, a heavily worked site, no *Berytinus* had previously been taken by sweeping, and yet in the DragVac of 13 August, three species were added to my site list, taking seven specimens. At none of the sites had I previously recorded *B. signoreti* by sweeping, and yet the single DragVac samplings produced six site records and 18 specimens of the bug. At Enstone Quarry, extensive pitfall trapping was undertaken throughout the 2011 season, but not a single *Berytinus* was taken, in contrast to 14 taken by DragVac late in 2012; and 11 taken sweeping previously. This suggests that these bugs are not apt to wander about on the ground, remaining low on their host plants, only occasionally ascending and ending up in a sweep net. The results at this site demonstrate the utility of DragVac, providing records not obtained by a combination of the conventional methods of sweeping and pitfall trapping.

Table 1 also lists two other species of interest, whose recording was greatly improved through the use of DragVac at the ten sites. I had seldom taken *Agramma laetum* (Fallén) (Tingidae) sweeping anywhere, and to find the bug by DragVac in good numbers at four different sites was a pleasant surprise. In the case of *Gampsocoris punctipes* (Germar) (Berytidae), I had always found it in good numbers by sweeping, so much so that I did not count the individuals (therefore shown as '?' in Table 1), and I assumed therefore that sweeping would find it wherever it occurred. However, for the ten sites, I doubled the number of site records for this bug through the use of DragVac.

It seems clear from these results that my recording of the six aforementioned species has, by sweeping, been somewhat inadequate, and that DragVac is a much more efficient and reliable technique. Just ten site records were obtained by several years of sweeping, compared with 23 site records by DragVac in single, short visits in 2012. Three sweeping site records were not replicated by DragVac, but in a proper survey multiple visits would be made, and it seems likely that these three sites would then be recorded by DragVac, and maybe more besides.

Above, I mentioned that *Berytinus* are seldom found in my sweep net, but there are exceptions to every rule, and in the interest of full disclosure I must report a single occurrence where this was not the case. During a brief visit to Kirtlington Quarry on 3 August 2009, I took 51 examples of *Berytinus* in my sweep net within an hour. The haul comprised 46 *B. signoreti*, three *B. montivagus* and two *B.*

*minor*. The specimens were identified using Pericart (1984), as I find the key of Southwood & Leston (1959) rather wanting, and my voucher collection for *Berytinus* was, at that time, rather small.

The diverse flora of the quarry floor was well grazed, presumably by rabbits, and resembled a garden lawn. This made identification of the plants difficult, but it was clear that Common Bird's-foot-trefoil, *Lotus corniculatus* L. (Fabaceae), a reported host plant of *B. signoreti* (Southwood & Leston, 1959), was clearly abundant, probably accounting for the high proportion of this insect in the catch. Experience has taught me that sweeping short vegetation often produces bugs not normally taken by this method, presumably because the net penetrates closer to the ground than is normally the case. Given that lower penetration is probably the reason for the efficiency of DragVac for *Berytinus*, it is probably also one of the reasons for the high catch of these bugs by sweeping in the singular situation of the quarry.

TABLE 1. The numbers of adult bugs of six species at ten sites taken by drag-vac in single, one-hour samplings on the dates given. The numbers taken by sweeping, in multiple visits in previous years, are given in brackets. '?' denotes multiple specimens not counted.

Sampling Site and Date	Numbers of adult bugs of each species taken					
	<i>Berytinus montivagus</i>	<i>Berytinus signoreti</i>	<i>Berytinus minor</i>	<i>Berytinus clavipes</i>	<i>Gampsocoris punctipes</i>	<i>Aggramma laetum</i>
Bald Hill, Oxon, SU724958 (13/08/2012)	2	1	-	4	1 (?)	-
Butlers Hangings, Bucks, SU818961 (18/08/2012)	-	4	-	-	1	-
Pitstone Hill, Bucks, SP953148 (20/08/2012)	-	-	-	-	1	-
Lardon Chase, Berks, SU585809 (21/08/2012)	- (1)	1	-	2 (1)	-	111
The Holies, Berks, SU591801 (23/08/2012)	-	-	1	8 (3)	2	7
Enstone Quarry, Oxon, SP371248 (26/08/2012)	4 (6)	7	3 (5)	-	1 (?)	-
Shirburn Hill, Oxon, SU717952 (01/09/2012)	-	3	-	-	-	17
Hartslock, Oxon, SU619794 (05/09/2012)	-	-	-	-	-	82
Bradwell Grove, Oxon, SP248068 (09/09/2012)	-	2	-	-	-	-
Homefield Wood, Bucks, SU814868 (15/09/2012)	-	-	- (2)	- (3)	1 (?)	-

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**OBSERVATIONS ON THE LIFE CYCLE OF  
*KALAMA TRICORNIS* (SCHRANK) (HEMIPTERA: TINGIDAE)**

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This is a curious little bug, which turns up in my sweep net usually as singletons about twice each year in dry situations, on chalk or sand. It has been found by others in a variety of circumstances, and its hostplant here, if any, has not been reported (Ryan, 2022a). I have been meaning to rear the bug through an entire generation in culture to study its life cycle, but I have never had eggs from the small number of adults I have so studied. Hence, I here report the fragments of information in my possession from my own limited observations, and invite others to fill the gaps, if they have the opportunity.

Figure 1 shows the current vice-county distribution and heximonth seasonal distribution of the bug (Ryan, 2022a). My own records are listed in Table 1. These add the heximonth records 6A(Nymph), 6D(1), 6E(3), 6F(2), 7A(1), 7C(1), 7E(2), 7F(1), 8A (1), 8B(2), 8C(1), 9F(2), 10B(Nymph). So, there is now a nearly complete heximonth distribution for adults from late May to the beginning of October, with gaps only for 5F, 8E and 9E, suggesting that adults occur throughout the season and possibly during the winter too. Nymphs have now been recorded at the beginning of June, in early July and in early October, suggesting multiple generations each year, but more data are needed here.

The bug has been taken by suction sampling: by DragVac (Ryan, 2013) in single hour samplings at Aston Rowant, three on 13 August 2012 and two more on 3 August 2013; and one by HandVac (Ryan, 2012) of thyme and rock-rose here on 30 June 2012, but other plants were no doubt present, so a host association cannot be concluded. However, given the success of these methods, compared with many hours of sweeping, it seems that this bug, amongst plants, prefers being low down, like *Berytinus* Kirkaldy (Berytidae) (Ryan, 2022b)

Good numbers of the bug were taken in pitfall traps in 2011, indicating that, unlike *Berytinus*, the bug is mobile on the ground where the traps were set. At Enstone Quarry, traps were set continuously from 19 March through to 25 September, and the bug was taken in the periods 31 May to 28 June (good number, uncounted), 28 June to 11 July (13) and 11 July to 28 August (1). The bug was also taken at Hitchcopse Pit in the period 17-30 June (13) only, but the traps here were prone to interference, and many records were lost. It seems likely, from these results, that the bug becomes mobile on the ground in June and this continues to early July, but more data are needed to better define this period.

There is good evidence of an association with moss. At Aston Rowant, small pitfall traps were buried amongst the thick pleurocarp moss at the base of scrub shrubs for the period 29 June to 25 August 2011 and collected two adult *K. tricornis*, but no other bugs. At Swyncombe Downs, a nymph was taken shaking moss on 6 October 2013, and another sieving moss on 3 June 2015. These were both reared to adult, and judging by the number of exuviae found in the cultures, and assuming five nymphal instars, these were fifth and fourth instars respectively. On both occasions, feeding was seen on fescue grass, *Festuca* L. (Poaceae), included among the plants of the culture, but not on the moss, indicating that although moss is a preferendum it may not be a pabulum for this bug. The nymphs were of a muddy-brown colour (see Figure 2), quite unlike those of the very common *Acalypta parvula* (Fallén) (Tingidae), and therefore easy to spot in the crowd. On the former occasion, an adult *A. parvula* had accidentally been left in the culture, which I discovered riding piggy-back on the larger *K. tricornis* nymph. I flicked it off, but when I returned to the culture later it was back on its mount. After several more cycles of this, I tired of the phenomenon and removed the *A. parvula* from the culture, in case it was impeding the nymph's development. Was this an example of phoresy?

On 27 September 2013 an orange, curved, ribbed, flattened egg (twice the length of an *A. parvula* egg) (see Figure 2) was found in moss at Aston Rowant. It was laid through the flattened, concentric leaves near the stem of *Rhytidiadelphus triquetrus* (Hedw.) Warnst. (Hylocomiaceae). Running through the various possibilities in my mind, I ended up considering *K. tricornis* as a possible identity. Alas, I was unable to hatch the egg to confirm or deny this, so there remains a gap in my knowledge of the *K. tricornis* life cycle of egg through to late instar nymphs. I will continue to attempt to get adults I capture to lay eggs, but until they do, the possible identity of this egg will remain a mystery.

TABLE 1. My personal records of *Kalama tricornis*. Numbers of adults taken in brackets.

23/07/2008 SU717952 Sweeping, downland, SSSI Shirburn Hill, VC23 (2)  
 06/08/2008 SU723959 Sweeping, downland, Bald Hill, NNR Aston Rowant, VC23 (2)  
 25/06/2009 SU586802 Sweeping, hillside meadow, NT The Holies, Streatley, VC22 (1)  
 09/08/2009 SU618793 Sweeping, downland, BBOWT Hartslock, Goring, VC23 (1)  
 16/06/2010 SU587801 Sweeping, hillside meadow, NT The Holies, Streatley, VC22 (1)  
 23/07/2010 SU725958 Sweeping, downland, Bald Hill, NNR Aston Rowant, VC23 (1)  
 21/06/2011 SU585801 Sweeping, hillside meadow, NT The Holies, Streatley, VC22 (1)  
 31/05-28/06/2011 SP371248 Pitfall trap, Enstone Quarry, Enstone, VC23 (good number, uncounted)  
 17/06-30/06/2011 SU452999 Pitfall trap, derelict field near BBOWT Hitchcopse Pit, VC22 (13)  
 28/06-11/07/2011 SP371248 Pitfall trap, Enstone Quarry, Enstone, VC23 (13)  
 29/06-25/08/2011 SU723963 Pitfall trap, under moss at base of scrub, Bald Hill, NNR Aston Rowant, VC23 (2)  
 11/07-28/08/2011 SP371248 Pitfall trap, Enstone Quarry, Enstone, VC23 (1)  
 28/09/2011 SU452999 Sweeping, derelict field near BBOWT Hitchcopse Pit, VC22 (3)  
 30/09/2011 SU452999 Sweeping, derelict field near BBOWT Hitchcopse Pit, VC22 (1)  
 25/06/2012 SU593800 Sweeping, hillside meadow, NT The Holies, Streatley, VC22 (1)  
 30/06/2012 SU729967 HandVac, thyme & rock-rose, Beacon Hill, NNR Aston Rowant, VC23 (1)  
 13/08/2012 SU724958 Dragvac, downland, Bald Hill, NNR Aston Rowant, VC23 (3)  
 05/07/2013 SU727964 Sweeping, track to middle hill, NNR Aston Rowant, VC23 (1)  
 27/07/2013 SU727964 Sweeping, middle hill, NNR Aston Rowant, VC23 (1)  
 03/08/2013 SU727971 DragVac, Beacon Hill, NNR Aston Rowant, VC23 (2)  
 06/10/2013 SU675915 Shaking moss, Swyncombe Downs, VC23 (nymph)  
 03/06/2015 SU675915 Sieving moss, Swyncombe Downs, VC23 (nymph)  
 29/06/2015 SP413053 Sweeping, beside lake, Stanton Harcourt, VC23 (1)  
 15/07/2015 SU520937 Sweeping, roadside, Sutton Courtney, VC22 (1)  
 18/06/2019 TL759729 Sweeping, track to Cavenham Heath, West Suffolk (1)  
 20/06/2019 TL822878 Sweeping, Santon Warren, West Norfolk (1)  
 21/06/2019 TL854876 Sweeping, ride near Two Mile Bottom, West Norfolk (2)

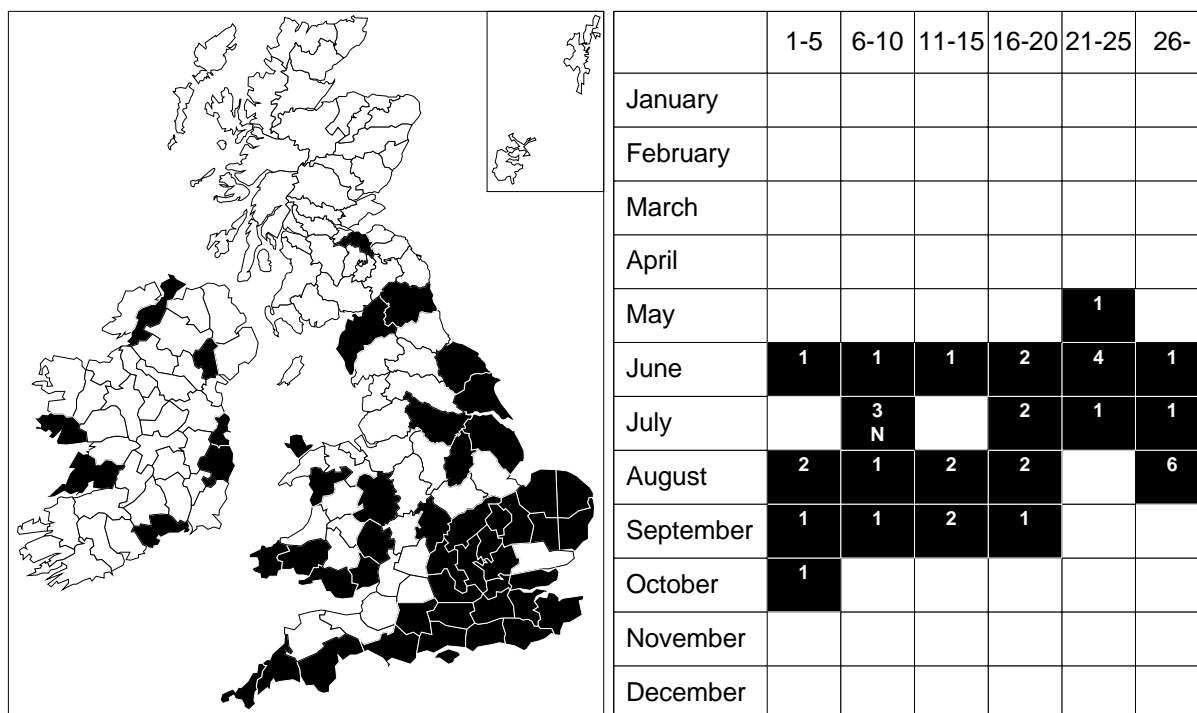
FIGURE 1. Vice-county map and heximonth chart for *Kalama tricornis* (Ryan, 2022a).



FIGURE 2. *Kalama tricornis* adult (top left), nymph in culture, captured 3 June 2015 (top right and bottom left), and mystery egg found on 27 September 2013 (bottom right, not to the same scale).

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**SOME MORE UNUSUAL PREFERENDA OF *CHLAMYDATUS EVANESCENS* (BOHEMAN)  
(HEMIPTERA: MIRIDAE)**

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I have previously reported this bug from stonecrop, *Sedum* L. (Crassulaceae), growing on hard standing and on graves in cemeteries (Ryan, 2013a, 2013b, 2015a, 2015b, 2016, 2018, 2019a & 2019b), and in case these situations are not considered strange enough, I here report some more from my notebook. On 18 June 2015, I found nymphs of the bug by lifting a mat of stonecrop growing on the flat top of a bin store at the bottom of a garden in Wolvercote, Oxford (SP495097, VC23). Later the same day, I noticed some stonecrop growing in the metal guttering of a house in my street (SP510068, VC23), from which I shook nymphs of the bug. In culture, both sets of nymphs were reared to adults to confirm identity. In the latter, the adults included several macropters.

I have also taken the bug in a natural setting, albeit a man-made one. A small amount of stonecrop was found growing on sandy ground on 11 June 2018 at Hitchcopse Pit, Dry Sandford, VC22 (SU453997), and several nymphs of the bug were taken from it. These were reared at home to adult.

It remains a puzzle why, after I first added the bug to my personal list in 2012, I then started finding it in most places where I specifically searched for it. Surely, it could not have arrived at each of these places just before I visited. Admittedly, the circumstances of capture were novel, and did not match the small number of previous records (except possibly the London rooftop of Jones (2003)) so presumably I was the first to look in these kinds of places, and the bug was waiting to be discovered. But, for how many decades was the bug in these, and other similar, places waiting for someone to find them?

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FIGURE 1. The bin store with mat of stonecrop (above) and the house with metal guttering (below).